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Comp. Door Page 32

For door track see underframe

R-40-30

100003 - To
100502 -

MATERIAL
A—Aluminum
B—Brass
C—Copper
R—Rubber
S—Steel Black
W—Wood
G—Galv. Steel

SOURCE OF SUPPLY
F—Furnished complete by an outside manufacturer.
M—Raw material to be purchased and fabricated by PFE.
P—A component part of an item that is furnished complete by an outside manufacturer.
O—An item furnished by one manufacturer to form a part of an assembly furnished by another.
SH—Secondhand, Reclaimed or Reconditioned material.

april 1, 1958

TRUCKS

Items common to all Trucks.

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	ITEM
	F	S	685#		112-3572	8	Wheels - Cast Steel - AAR 4
	F	S	1015#		112-4260	4	Axles 5-1/2" x 10"
	F	S	68#		113-4255	8	Roller Bearings 5-1/2" x 10" - Hyatt 4-R-2944
	F	S	23#		113-4259	8	Roller Bearing Adaptors 5-1/2" x 10"
	F	S	21.50#		162-3536	8	Brake Shoe (Duplane AAR-1-A)
	F	S	.75#		162-3537	8	Brake Shoe Key "Lockey"
	F	S	33#		161-3211	2	Truck Lever 5" x 10"
	F	S	33#		161-3209	2	Truck Lever 7" x 14"
	F	S	27#		161-3114	2	Truck Lever Connection
	F	S			421-3642	2	Dead Lever Fulcrum 2-1/2" x 1/2" x 33"
	M	S			421-2498	2	Center Pin 1-3/4" Dia. x 15"
	F					1#	Center Plate Grease
	F	S	24#		421-3167	4	Truck Side Bearing (Stucki)
	F	S	125#		162-3573	4	Unit Brake Beam
	F	S	2.25#		162-3582	8	Unit Brake Beam Wear Plate
	F	S					Welding Rod, Low Hydrogen (For Wear Plates) E-6016
	P	S			1R-4336	8	Journal Box Retainer Key
	M	S			1R-4336	8	Retainer Key Lock 2" x 12 Ga. x 4-3/4".

BILL OF MATERIAL FOR CARS IN CLASS R-40-30

Revised May 27, 1958

TRUCKS

ITEM Drwg. 4R-4448 (Buckeye) 3R-4364 (Sym.)

250 CARS "BUCKEYE" C-R

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	ITEM
F	S		625#		4R-4447	4	Truck Side Frame 42-CS-479
F	S		850#		4R-4446	2	Truck Bolster 42-CS-480
P	S				1R-4445	8	Friction Wedge Spring
P	S				2R-4443	8	Friction Wedge Block
P	S					8	Friction Plate 5" x 3/8" x 8"
F	S				362-2415	20	Truck Springs (Outer Coil) 3-11/16" Travel
F	S				362-2415	8	Truck Springs (Inner Coil) 3-11/16" Travel
P	S					2	Dead Lever Fulcrum Bracket

150 CARS "BARBER" TYPE S-2-C SYMINGTON-GOULD

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	ITEM
F	S		625#		4R-4361	4	Truck Side Frame 42-CS-469
F	S		850#		4R-4362	2	Truck Bolster 42-CS-468
P	S					8	Ride Control Spring
P	S					8	Friction Wedge
P	S					8	Friction Plate
F	S				362-2415	20	Truck Springs (Outer Coil) 3-11/16" Travel
F	S				362-2415	4	Truck Springs (Inner Coil) 3-11/16" Travel
P	S					2	Dead Lever Fulcrum Bracket

100 CARS "BARBER" TYPE S-2-C SCULLIN

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	ITEM
F	S		625#		4R-4442	4	Truck Side Frame 42-CS-481
F	S		850#		4R-4441	2	Truck Bolster 42-CS-482
P	S					8	Friction Wedge Springs
P	S					8	Friction Wedge
P	S					8	Friction Plate
F	S				362-2415	20	Truck Springs (Outer Coil) 3-11/16" Travel
F	S				362-2415	4	Truck Springs (Inner Coil) 3-11/16" Travel
P	S					2	Dead Lever Fulcrum Bracket

Revised May 27, 1958

BILL OF MATERIAL FOR CARS IN CLASS R-40-30

UNDERFRAME

Drwg. 444-4340

BILL OF MATERIAL FOR CARS IN CLASS R-40-30

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	ITEM	
	P	S		U 1	4R-4344	1	Center Sill	12 15/16" "Z" @ 41.2# x 42'-5-3/4"
	P	S		U 2	4R-4344	1	Center Sill	12-15/16" "Z" @ 41.2# x 42'-5-3/4"
	P	S		U 3	4R-4344	3	Center Sill Tie Plate	5/16" x 3" x 18"
	P	S		U 4	4R-4344	6	Center Sill Seperator	1-1/2" x 1-1/2" x 1/4" x 12-29/32"
	P	S		U 5	4R-4345	1	Side Sill Channel	6" x 2-1/2" x 12# x 41'-1-3/8"
	P	S		U 6	4R-4345	1	Side Sill Channel	6" x 2-1/2" x 12# x 41'-1-3/8"
	P	S		U 7	4R-4345	2	End Sill	4" x 4" x 3/8" x 47 11/32"
	P	S		U 8	4R-4345	2	End Sill	4" x 4" x 3/8" x 47 11/32"
	P	S		U 9	4R-4344	2	Center Sill Tie Plate	5/16" x 5-1/2" x 26-5/8"
	P	S		U 9A	4R-4344	1	Center Sill Tie Plate	5/16" x 9-1/2" x 26-5/8"
	P	S		U10	4R-4345	2	Bell Crank Fulcrum	7/16" x 6" x 7"
	P	S		U11	4R-4345	1	Diagonal Brace Gusset	3/8" x 4" x 4-1/16"
	P	S		U12	4R-4345	1	Diagonal Brace Gusset	3/8" x 4" x 4-1/16"
	P	S		U13	4R-4345	1	Diagonal Brace Gusset	3/8" x 4" x 4-1/16"
	P	S		U14	4R-4345	1	Diagonal Brace Gusset	3/8" x 4" x 4-1/16"
	P	S		U15	4R-4345	2	Corner Conn. Plate	3/8" x 3-1/8" x 3-1/8"
	P	S		U16	4R-4345	2	Corner Connection	3/8" x 5-3/16" x 6"
	P	S		U17	4R-4345	2	Corner Connection	3/8" x 5-3/16" x 6"
	P	S		U18	4R-4345	2	Cross Tie	5" 6.7# x 50-7/16"
	P	S		U19	4R-4345	3	Cross Tie	5" 6.7# x 50-7/16"
	P	S		U20	4R-4345	1	Cross Tie	5" 6.7# x 50-7/16"
	P	S		U21	4R-4345	4	Cross Tie	5/16" x 12" x 50-7/16"
	P	S		U22	4R-4343	2	Crossbearer	5/16" Plt.
	P	S		U23	4R-4343	1	Crossbearer	5/16" Plt.
	P	S		U24	4R-4343	1	Crossbearer	5/16" Plt.
	P	S		U25	4R-4343	1	Crossbearer	5/16" Plt.
	P	S		U26	4R-4343	1	Crossbearer	5/16" Plt.
	P	S		U27	4R-4343	1	Body Bolster	3/8" Plt.
	P	S		U27A	4R-4343	1	Body Bolster	3/8" Plt.
	P	S		U28	4R-4343	1	Body Bolster	3/8" Plt.
	P	S		U28A	4R-4343	1	Body Bolster	3/8" Plt.
	P	S		U29	4R-4345	1	Bolster Top Cover	3/8" x 20 7/16" x 6'-0"
	P	S		U30	4R-4345	1	Bolster Top Cover	3/8" x 36" x 6'-0"
	P	S		U31	4R-4345	1	Cylinder Support	3/8" x 14-1/2" x 29-7/8"
	P	S		U32	4R-4344	1	Branch Pipe Tee Supt.	3/8" x 3" x 14-5/8"
	P	S		U33	4R-4345	3	Valve Support Angle	3" x 2" x 3/8" x 4"
	P	S		U34	4R-4345	1	Valve Support Angle	5" x 3" x 3/8" x 4"
	P	S		U35	4R-4346	2	Support Angle	3" x 2" x 3/8" x 45-11/16"
	P	S		U36	4R-4345	1	AB Valve Support	3/8" x 8" x 25-1/2"
	P	S		U37	4R-4346	1	Diagonal Brace	8" x 13.75# x 62-3/4"
	P	S		U38	4R-4346	1	Diagonal Brace	8" x 13.75# x 62-3/4"
	P	S		U39	4R-4346	1	End Sill Angle	4" x 3" x 3/8" x 9'-1" 109"
	P	S		U40	4R-4346	1	Deck Plate	3/8" x 59-1/4" x 9'-6-1/2"

UNDERFRAME

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	ITEM	
	P	S		U41	4R-4346	1	Angle Cock Support	3/8" x 5" x 10-11/16"
	P	S		U42	4R-4346	1	Angle Cock Support	3/8" x 5" x 11-5/8"
	P	S		U43	4R-4346	2	Uncoupling Rod Brk't.	3/8" x 5" x 5-3/4"
	P	S		U43A	4R-4346	2	Uncoupling Rod Brk't Reinforcement	3/8" x 3" x 9-3/8"
	P	S		U44	4R-4346	1	Reservoir Support	7/16" x 6" x 12-3/16"
	P	S		U45	4R-4346	1	Reservoir Support	7/16" x 10-11/16" x 12"
	P	S		U46	4R-4346	1	Fuel Tank Support	1" x 5-3/4" x 7"
	P	S		U47	4R-4346	1	Fuel Tank Support	1" x 3-1/2" x 5-3/4"
	P	S		U48	4R-4346	1	Fuel Tank Support	1" x 3-1/2" x 5-3/4"
	P	S		U49	4R-4346	1	Fuel Tank Support	1" x 5-3/4" x 7"
	P	S		U50	4R-4346	1	Fuel Tank Support	1" x 5-1/4" x 7-1/8"
	P	S		U51	4R-4346	1	Fuel Tank Support	1" x 5-1/4" x 7-1/8"
	P	S		U52	4R-4346	1	Slack Adjuster Brk't.	3/8" x 8" x 12"
	P	S		U53	4R-4346	1	Slack Adjuster Brk't.	1/2" x 8" x 17-3/8"
	P	S		U54	4R-4346	1	Slack Adjuster Brk't.	1/2" x 8" x 10-1/16"
	P	S		U54A	4R-4346	2	Slack Adjuster Spacer	1/2" x 4" x 4"
	P	S		U55	4R-4346	2	Bolster Bottom Tie	3/8" x 22" x 43-1/2"
	P	S		U56	4R-4346	4	Side Bearing Wear Plt.	3/8" x 4-3/4" x 16"
	P	S		U57	4R-4346	1	Brake Rod Support	1/2" x 2" x 25-3/4"
	P	S		U58	4R-4346	1	Brake Rod Support	1/2" x 2" x 16"
	P	S		U59	4R-4346	4	Release Rod Guide	2" x 2" x 5/16" x 1-1/2"
	P	S		U60	4R-4343	2	Wear Plate Stiffener	4" x 3" x 3/8" x 17-1/16"
	P	S		U60A	4R-4343	2	Wear Plate Stiffener	4" x 3" x 3/8" x 17-1/16"
	P	S		U61	4R-4343	4	Bolster End Stiffener	3/8" x 6-3/16" x 11-9/16"
	P	S		U62	4R-4344	1	Brake Lever Guide	1" Rod x 27-5/8"
	P	S		U62A	4R-4344	2	Brake Lever Guide	1" Rod x 27-5/16"
	P	S		U63	4R-4344	1	Brake Lever Guide	1" Rod x 23-5/8"
	P	S		U64	4R-4344	4	Striker Front Plate	1/2" x 4-5/8" x 15-3/4"
	P	S		U65	4R-4344	4	Striker Bar Backer	1/2" x 2-1/4" x 6"
	P	S		U66	4R-4344	2	Striker Bar	1-1/2" x 3-1/4" x 18-1/4"
	P	S		U67	4R-4344	2	Crosstie Support-Striker	3/8" x 8-1/4" x 18"
	P	S		U68	4R-4344	2	Pocket Back Plate	3/8" x 3-1/2" x 10-1/2"
	P	S		U69	4R-4344	2	Pocket Back Plate	3/8" x 3-1/2" x 10-1/2"
	P	S		U70	4R-4346	2	Fuel Tank Support Stiffener	1/2" x 3" x 7-7/16"
	P	S		U71	4R-4346	2	Fuel Tank Support Stiffener	1/2" x 3" x 6-29/32"
	P	S		U72	4R-4346	2	Fuel Tank Support Stiffener	1/2" x 3" x 3-15/16"
	P	S		U73	4R-4346	2	Fuel Tank Support Stiffener	1/2" x 3" x 3-13/32"
	P	S		U74	4R-4346	4	Fuel Tank Support Stiffener	1/2" x 3" x 5-11/16"
	P	S		U75	4R-4346	4	Fuel Tank Support Stiffener	1/2" x 3" x 5-5/32"
	O	S			201-3254	8	Trunnion Lug	
	O	S	25#		443-3615	4	Front Draft Gear Stop SI-44-F-343	

BILL OF MATERIAL FOR CARS IN CLASS

UNDERFRAME

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	ITEM
	M	S		U31	441-2989	2	Sill Step 1/2" x 2" x 52"
	M	S		U32	441-2989	2	Sill Step 1/2" x 2" x 52"
	M	S			1R-4504	2	Sill Step at Door 1/2" x 2" x 91-1/4"
	M	S			341-3778	1	Sill Step at Comp. Door 1/2" x 1-1/2" x 47"
	F	S			3R-4488	2	End Sill Handhold Fig. 146.
	O	S			1R-4686	4	Body Side Bearing (Forging)
	O	S	82#	F-198	443-3569	2	Body Center Plate
	O	S	220#		4R-4409	2	Bolster Center Filler (250 cars) Buckeye
	O	S	220#		4R-4367	2	Bolster Center Filler (250 cars) Symington
	P	S			3R-4555	2	Door Track
	P	S			3R-4555	26	Door Track Filler
	P	S			3R-4555	2	Closing Kicker Bar 1" x 1-1/4" x 1-1/2" (on Door Track)
	P	S		D-1226		2	Door Open Latch

Total Weight---------9,725#
Mfgr..... Gunderson Bros.

BILL OF MATERIAL FOR CARS IN CLASS R-40-30

Revised August 8, 1958

DRAFT RIGGING

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	ITEM
	F	S	423#	E-60	203-2346	2	Coupler Type E (Rigid Shank Bottom Operated)
	F	S	24#		2R-4618	C/S	Coupler Release Rigging "Imperial"
	F	S	48#		201-3533	2	Draft Gear Key 6" x 1-1/2" x 18-1/2"
	P	S			202-3257	2	Coupler Centering Device Carrier Iron
	P	S			201-3256	4	Trunnion Link
	P	S			203-3258	4	Adjustable Trunnion Pocket
	P	S				4	Cotter Pins 7/16" x 6"
	F	S			202-3538	2	Draft Key Retainter - Azee
	F	SR	335#		3R-4473	2	Draft Gear - Miner RF-333 (400 Cars)
	F	S	210#		203-3474	2	Coupler Yoke Y-40
	M	S			201-3220	2	Draft Gear Carrier 8" x 5/8" x 20-3/8"
	F	S	335#		3R-4507	2	Draft Gears-Cardwell (100 cars) Mark 40
	F	S			1R-4524	2	Follower Plate Filler 1/2" x5-3/4"x6-3/4"(100 cars)
	F	S			201-3596	2	Follower Plate 2-1/4" x 8-7/8" x 12-1/2"

Revised June 16, 1958
Revised July 1, 1958
Revised Aug. 20, 1958

SHEATHING & FRAMING

DRAWING NO. 6R-4575

BILL OF MATERIAL FOR CARS IN CLASS R-40-30

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	ITEM
	P	S			6R-4575	C/S	Sheathing & Framing (Complete) – ZU BAR – (PLATE) DRG-6R-4575 40'9 3/4"
	P	S		S-24994	3R-4576	1	Side Sheet
	P	S		S-24997	3R-4577	1	Side Sheet @ Machine Comp. 3'-4" X 9'-8 3/4"
	P	S		S-24999	3R-4578	1	Side Sheet
	P	S		S-24998	3R-4579	1	Side Sheet – 3'-8 5/16 X 9'-8 3/4" At End – B End – Ladder
	P	S		S-24996	3R-4580	1	Side Sheet @ Machine Comp. 3'-4" X 9'-8 3/4"
	P	S		S-24995	3R-4581	1	Side Sheet INTER – 44 1/16 X 9'8 5/16
	P	S		S-24993	3R-4582	1	Side Sheet
	P	S		S-25000	3R-4583	2	Side Sheet Below Door 6'-8" X 12GA X 3" X 3 5/16" THRESHOLD PLATE
	P	S		L-25002	3R-4584	1	Louvered Side Sheet 14 Ga.
	P	S		L-25001	3R-4585	1	Louvered Side Sheet 14 Ga.
	P	S		S-24989	3R-4586	1	Side Sheet
	P	S		S-25053	3R-4586	1	Side Sheet @ Door 2'-11 1/2" X 9'-8 3/4" } 5/8" offset not included
	P	S		S-24990	3R-4587	1	Side Sheet @ Door 2'-11 1/2" X 9'-8 3/4" }
	P	S		S-25054	3R-4587	1	Side Sheet
	P	S		S-24991	3R-4588	2	Side Sheet
	P	S		S-24992	3R-4588	3	Side Sheet
	P	S		S-25055	3R-4588	1	Side Sheet
	P	S		S-25056	3R-4588	1	Side Sheet 3'-8" X 9'8 3/4"
	P	S		S-25016	1R-4589	1	Door Stop Backing Plt.
	P	S		S-25027	1R-4590	4	Threshold Plate Support
	P	S		S-24987	1R-4591	2	Filler at Door Header
	P	S		S-24986	1R-4592	2	Top Bolting Bracket at Corner Post
	P	S		S-24988	1R-4593	1	Top Ret. Reinf. Plate
	P	S		S-25003	3R-4594	2	Door Post 3-3/8" x 8.3# Zee
	P	S		S-25004	3R-4594	2	Door Post 3-3/8" x 8.3# Zee
	P	S		S-25005	3R-4595	2	Door Header 3-3/8" x 8.3# Zee
	P	S		S-25008	3R-4596	1	Intermediate Post
	P	S		S-25009	3R-4596	1	Intermediate Post
	P	S		S-25010	3R-4597	6	Intermediate Post
	P	S		S-25011	3R-4597	6	Intermediate Post
	P	S		S-25012	3R-4598	1	Intermediate Angle Post
	P	S		S-25013	3R-4598	1	Intermediate Angle Post
	P	S		S-25006	3R-4599	1	Corner Post - "B" End }
	P	S		S-25007	3R-4599	1	Corner Post - "B" End }
	P	S		S-24954	3R-4601	1	Corner Cap "B" End of Car
	P	S		S-24955	3R-4601	1	Corner Cap "B" End of Car
	P	S		S-24956	3R-4602	1	Corner Cap "A" End of Car
	P	S		S-24957	3R-4602	1	Corner Cap "A" End of Car
	P	S		S-25014	3R-4603	1	Side Sill Angle
	P	S		S-25015	3R-4603	1	Side Sill Angle

23

SHEATHING & FRAMING

Mach. Compt. 15

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	ITEM
	P	S		S-23315	131-3877	14	Int. Post & Side Plt. Conn.
	P	S		S-23550	131-4079	4	Door Post & Side Plt. Conn.
	P	S		S-23301	131-3881	4	Bolting Clip at Door & Side Plate Gusset
	P	S		S-25027	131-3882	4	Bolting Clip at Door Post & Side Sill Gusset
	P	S		S-23306	131-3885	2	Bolting Clip at Splice of Steel at Corner Post
	P	S		S-23303	131-3883	4	Inter. & Bottom Bolting Brkt. at Corner Post
	P	S		S-23544	123-4054	2	Door Post & Side Plate Gusset
	P	S		S-23545	123-4054	2	Door Post & Side Plate Gusset
	P	S		S-23546	132-4056	2	Door Post & Side Sill Gusset ×
	P	S		S-23547	132-4056	2	Door Post & Side Sill Gusset
	P	S		S-17890	121-4052	12	Door Post Bolting Clip
	P	S		S-21001	121-3184	8	Top & Inter. Bolting Clip
	P	S		S-17891	121-2966	2	Side Grab Reinforcement
	P	S		S-25	3R-4555	4	Bumper Reinforcement 1-1/2" x 1-5/8" x 3/16" x 38-7/8"
	P	S		S-16572		4	Standard Filler at Top of Posts
	P	S		S-7037	121-2958	2	Standard Filler
	P	S		S-23416	137-3564	1	Grab Iron Connection
	P	S		22	3R-4555	2	Top Retainer - Over Doorway
	P	S		26	3R-4555	2	Top Retainer - Beyond Doorway
	F	S			PAGE 5 OF DR	1	Filter Panel 48-3/8" x 14 Ga. x 65-3/8" (See Drwg. Index)
	M	S		S-32	2R-4605	1	Corner Post A-End 3-1/2" x 2-1/2" x 3/8" x 10'-2" AL (ANGLE)
	M	S		S-33	2R-4605	1	Corner Reinforcement A-End 1/2" x 1-1/2" x 10'-1-31/32" AR
	M	S		S-30	2R-4606	1	Filter Panel Header 3-1/2" x 2-1/2" x 3/8" x 50-1/8"
	M	S		S-31	2R-4606	1	Filter Panel Header 3-1/2" x 2-1/2" x 3/8" x 46-3/4"
	M	S		S-11	131-4001	1	Handhold Stile Bracket 1/4" x 2" x 13-5/8"
	M	S		S-12	131-4001	1	Handhold Stile Bracket 1/4" x 1-3/4" x 11-1/8"
	P	S		21	1R-4559	2	Top Roller Stop
	P	S		23	2R-4565	4	Door Bumper No. D-1208 STOPS
	P	S		13	2R-4567	2	Door Keeper No. D-210 — BL + AR - TOP
	P	S		14	2R-4567	2	Door Keeper No. D-211 — BR + AW - TOP } POSITION FROM B to
	P	S		27	2R-4568	2	Door Keeper No. D-1223-1 AL - BR } A - END OF CAR -
	P	S		28	2R-4568	2	Door Keeper No. D-1224-1 AR - BL } BOTTOM
	M	S		S-17	1R-4263	1	Ladder Reinf. 4" x 12 Ga. x 15"
	M	S		S-18	1R-4263	1	Ladder Reinf. 4-1/2" x 12 Ga. x 16"
	M	S		S-13	1R-4624	2	Bolting Clip @ Angle Post 1/4" x 4" x 7"
	M	S		S-14	1R-4624	6	Bolting Clip @ Angle Post 1/4" x 4" x 9-1/2"
	M	S		S-16	1R-4624	4	Bolting Clip @ Top Belt Rail 1/4" x 4" x 6"

BILL OF MATERIAL FOR CARS IN CLASS R-40-30

Revised May 27, 1958
July 18, 1958

STEEL ENDS ASSEMBLED

Drwg. 4R-4610 & 4R-4612

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	ITEM
	F	S			4R-4613	1	Top Section) B End
	F	S			4R-4613	1	Bottom Section)
	F	S			4R-4611	1	Top Section) A End
	F	S			4R-4611	1	Bottom Section)
	M	S			1R-4407	1	Brake Step Bracket 1-3/4" x 3/8" x 32"
	M	S			1R-4407	1	Brake Step Bracket 1-3/4" x 3/8" x 32"
	M	S		S-4	1R-4616	1	Hand Brake Housing Support 4" x 3/8" x 24"
	M	S		S-5	1R-4616	1	Hand Brake Housing Support 4" x 3/8" x 24"
	M	S		S-8	1R-4506	2	Run. Bd. Support Brace 1-1/2" x 3/8" x 15-25/32" "A" End
	M	S			1R-4551	2	End Run. Bd. Support 3" x 2" x 3/16" x 22-1/2" Angle
	M	S			371-3202	1	Retainer Valve Bracket 4" x 1/4" x 5"
	M	S		S-9	1R-4506	2	Run. Bd. Support Brace 1-1/2" x 3/8" x 15-25/32" "B" End
	M	S			161-3638	1	Retainer Pipe Clamp 3/16" x 1-1/2" x 3-7/8"
	M	S			161-3638	1	Retainer Pipe Clamp Bracket 1/4" x 1-1/2" x 5-1/2"
	M	S		S-15	1R-4623	5	Steel End Bolting Strap 3" x 5/16" x 8'-6"

Revised May 27, 1958

MATERIAL
A—Aluminum
B—Brass
C—Copper
R—Rubber
S—Steel Black
W—Wood
G—Galv. Steel

SOURCE OF SUPPLY
F—Furnished complete by an outside manufacturer.
M—Raw material to be purchased and fabricated by PFE.
P—A component part of an item that is furnished complete by an outside manufacturer.
O—An item furnished by one manufacturer to form a part of an assembly furnished by another.
SH—Secondhand, Reclaimed or Reconditioned material.

SIDES & ENDS APPLIED

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DRAWING NO. 6R-4575

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	ITEM
	F	S			6R-4575	2	Sides (Assembled)
	F	S			4R-4610	1	End (Assembled) A End
	F	S			4R-4612	1	End (Assembled) B End
	F	S	75#		3R-4480	1	End Ladder A End
	F	S	75#		3R-4480	1	End Ladder B End
	P	R&S				4	Door Bumper D1208-SUPERIOR DOOR (4-3-430)
	P	S				2	Door Latch
	F	S	75#		3R-4480	2	Side Ladders
	M	S		S-28	283-3721	2	Placard Board Brkt. - Side 5-3/8" x #12 ga. x 18-1/2"
	M	S		S-29	283-3721	2	Placard Board Brkt. - Side 5-3/8" x #12 ga. x 18-1/2"
	M	S		S-24	283-3721	2	Commodity Cardboard Brkt. 5-3/8" x #12 ga. x 11-1/4"
	M	S		S-25	283-3721	2	Commodity Cardboard Brkt. 5-3/8" x #12 ga. x 11-1/4"
	M	W		S-27	283-3721	8	Placard Board - Side and End 1" x 8" x 2'-2-1/8"
	M	W		S-26	283-3721	4	Commodity Cardboard 1" x 4-3/8" x 13-3/4"
	F	R	1.5#		282-3181	1	Defect Card Holder - "Flexi"
	F	S			341-2019	16	G.T. Washers - Style "D" Electro Galv.
	F	S	3.9#		3R-4488	2	Side Handholds Fig. 146
	F	S	3.9#		3R-4488	2	Door Handholds Fig. #1
	F	S	3.9#		3R-4488	1	End Handholds B End Fig. 148
	F					*2	Extruded Caulking Compound 3/16" Dia. x 13'-10" (Permagum)
	F	S	2.9#		3R-4488	1	End Handhold A End Fig. 131
	M	S		S-20	371-3324	1	Handhold Brkt. - A End 2" x 1/4" x 11-1/8"
	M	S		S-21	371-3324	1	Handhold Brkt. - A End 2" x 1/4" x 16"
	M	S		S-22	283-3721	2	Placard Board Brkt. - End 5-1/2" x #12 ga. x 20-9/16"
	M	S		S-23	283-3721	2	Placard Board Brkt. - End 5-1/2" x #12 ga. x 20-9/16"
	F					16	#221 Yellow Powder Charge)
	F					16	1/2" Disc) "Ramset" for securing
	F					16	#2326 Drive Pin) placard boards & commodity boards.
	F					8	7/8" Disc.)
	F					8	#3316 Drive Pin) End Placard Board.
	F					4	#223 Purple Powder Charge
	F				2R-4384	1	Indicator Light #MRN-57111-11 (Vapor Heating Corp.)
	M	S			1R-4383	1	Indicator Light Guard 11-1/4" x 12 ga. x 14-1/2"
	F					1	Indicator Light Wire #16 Stranded 11'-0"
	F					1	Indicator Light Wire #16 Stranded 14'-0"
	F					4	#224 Yellow Powder Charge
						1	No. 89 "G.E." 12 V. Lamp (Indicator Light)

* See note on page 23

Revised June 11, 1958

BILL OF MATERIAL FOR CARS IN CLASS R-40-30

AIR BRAKES APPLIED

DRAWING NO. 4R-4435

BILL OF MATERIAL FOR CARS IN CLASS R-40-30

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	ITEM	
	SH	S				1	AB Valve Complete N-3559 (S.H.)	
	SH	S				1	Combined Dirt Collector & Cut-Out Cock N-2774 (S.H.)	
	SH	S				1	Branch Pipe Tee N-3145 (S.H.)	
	SH	S				1	Combined Auxiliary & Emergency Reservoir N-2931 (S.H.)	
	SH	S				1	Brake Cylinder N-2779 (S.H.)	
	F	S				1	Retainer Valve	
	F	S			161-3534	2	Angle Cock	
	F	SR			161-4002	2	Air Hose Complete (with FP-5 Coupling, 1-1/4" Nipples & Gasket)	
	F	S				1	Cylinder Lever 16-3/4" x 17-1/4"	
	F	S				1	Floating Lever 13-1/4" x 13-3/4"	
	M	S			163-2546	1	Cylinder & Floating Lever Conn. 1-1/8" x ~~4'-10"~~ (Rod Only) 5'-8½"	
	M	S			163-2546	1	Truck & Cyl. Lever Conn. ~~7/8" Dia. x 9'-7"~~ (Rod Only) 8'-1 1/16"	
	M	S			163-2546	1	Truck & Flt. Lever Conn. 7/8" Dia. x ~~17'-9"~~ (Rod Only) 19'-9 7/8"	
	F	S			161-3266	2	Brake Rod Jaws (for 1-1/8" Dia. Rod) SI No. F-185	
	F	S			163-2542	4	Brake Rod Jaws (for 7/8" Dia. Rod) SI No. F-164	
	F	S			163-3616	15	Brake Lever Pins 1-3/32" x 3-1/2" Pin No. 1	
	F	S			163-3616	4	Truck Lever Conn. Pins 1-7/32" x 3-1/2" Pin No. 36	
	F	S			163-3616	1	Brake Lever Pin 1-3/32" x 5-1/8" Pin No. 2	
	M	S			2R-4277	2	Release Rod 1/2" Dia. x 6'-3-1/2"	
	M	S			2R-4277	2	Release Rod Aux. 1/2" Dia. x 4'-0"	
	F	S	2#		161-3113	5	Brake Pipe Anchor - Gustin - Bacon R-27-5	
	F	S	.75#		162-3840	2	Retainer Pipe Clamp - Cenco with #285-2 Base	
	F	S	75#		3R-4532	1	Brake Slack Adjuster (Universal)	
	F	S	12#		161-3216	1	Push Rod 1-3/8" Dia. x 26-1/4"	
	M	S				1	Trainline Pipe 1-1/4" x 12'-0"	Extra Heavy
	M	S				1	Trainline Pipe 1-1/4" x 5'-4"	Extra Heavy
	M	S				1	Trainline Pipe 1-1/4" x 23'-6"	Extra Heavy
	M	S				2	Trainline Pipe Nipples 1-1/4" x 10"	Std. Pipe
	M	S				1	Branch Pipe 1" x 24"	Extra Heavy
	M	S				1	Cylinder to Valve Pipe 3/4" x 3'-0"	Extra Heavy
	M	S				2	Reservoir to Valve Pipe 3/4" x 6'-0"	Extra Heavy
	M	S				1	Retainer Pipe 3/8" x 3'-2"	Extra Heavy
	M	S				1	Retainer Pipe 3/8" x 11'-6"	Extra Heavy
	M	S				1	Retainer Pipe 3/8" x 4'-9"	Extra Heavy
	M	S				1	Retainer Pipe 3/8" x 11'-0"	Extra Heavy
	F	S				4	Coupling 1-1/4"	Extra Heavy
	F	S				1	Coupling 3/8"	Extra Heavy
	F	S				1	Union Elbow 90° 3/8"	Extra Heavy
	M	B			163-3310	1	Badge Plate (Brake Levers)	

Revised July 10, 1958

AIR BRAKES APPLIED

DRAWING NO. 4R-4435

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	ITEM
						2	Cotter Keys 3/8" x 2-1/2"
	F	S				1	Release Rod Support 2-1/4" x #12 Ga. x 13-1/4"
	M	S			161-4051	1	Retainer Pipe Clamp - Cenco with #2037M Base
	F	S			161-3658	*1	QRR Brake Cyl. Release Valve Complete with Gaskets & Fittings
	F	S				1	3/8" Union - Extra Hvy.
	F	S					* 200 C/S Crearer, Adams 300 C/S N.Y.A.B. Co.
	M	S			161-3771	2	Branch Pipe Tee Anchor Washer 1-1/4" x 11 Ga. x 2-5/8"
	M	S			161-3637	2	Angle Cock U-Bolt 5/8" Rod x 10"
	F	S				18	Cotter Keys 3/8" x 2-1/2" (Lock Tite)
	F	S				4	Cotter Keys 5/16" x 1-1/2" (Release Rods)

HAND BRAKES

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	ITEM
	F	S	98#		153-2536	1	Power Unit - Equipco (400 c/s)
	F	S	98#		154-2541	1	Power Unit - Ajax (100 c/s)
	P	S			163-	1	Hand Wheel
	M	S			163-2546	1	Conn. Rod (Vertical) 7/8" Dia. (~~Rod Only~~) x ~~8'-4 1/2"~~ 8'-6 1/2"
	F	S	19#	F-164	163-2542	1	Brake Rod Jaw (for 7/8" Dia. Rod)
	F	S	2#	F-139	162-2543	2	Brake Rod Eye (Horiz.) for 7/8" Dia. Rod
	F	S		F-140	162-2543	1	Brake Rod Eye (Vert.) for 7/8" Dia. Rod
	M	S			163-2546	1	Connecting Rod (Horiz.) 7/8" Dia. x ~~16'-8 1/2"~~ 10'-1"
	F	S		Fig.2	161-3174	2	Clevis (Conn. Rod and Conn. Chain)
	M	S			161-3597	1	Connecting Chain
	P	S			152-2267	1	Bell Crank A.A.R. 50
	M	S			161-2762	1	Bell Crank Chain
	F	S		No. 5	163-3616	1	Pin 1-3/32" x 5-7/8" (Bell Crank Pin)
	F	S		No. 1	163-3616	3	Pin 1-3/32" x 3-1/2" (Hand Brake Conn.)
	F	S				4	Cotters 3/8" x 2-1/2" (Lock-Tite)
	P	S				1	Clevis with 11/16" Rivet
	F	S		Fig.1	161-3171	1	Clevis @ Connection Chain
					163-3639	1	Retainer Pipe Clamp - Cenco with #2037 Base

R-40-30

BILL OF MATERIAL FOR CARS IN CLASS

Rev. July 18, 1958

FUEL TANK

DRAWING NO. 6R-4435

BILL OF MATERIAL FOR CARS IN CLASS R-40-30

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	ITEM
	F	S	1958#	T-26	383-4226	1	Fuel Tank - Left.
	F	S	1958#	T-27	383-4226	1	Fuel Tank - Right
	F	S		T-1		2	2" Fill Cap "Buckeye" No. 764
	M	S		T-2	1R-4436	1	2" Fuel Tank Filler Pipe (2" Std. Pipe 21") Left Tank
	M	S		T-2A	1R-4436	1	2" Fuel Tank Filler Pipe (2" Std. Pipe 21") Right Tank
	F	R		T-3	381-4287	2	Filler Hose 2-3/8" ID x 14" Neoprene
	F	S		T-4		4	Hose Clamp M-40-S, 2-1/16" to 3" "Aero-Seal"
	F	S		T-5	6R-4435	2	2" Street Elbow
	F	S		T-6		2	3/4" Vent Cap (Buckeye No. 631)
	F	S		T-7	1R-4437	2	Vent Pipe (3/4" x 14-1/2" Std. Pipe)
	F	S-R		T-8	6R-4435	8	1/2" Dresser 90° Ell
	M	S		T-9	6R-4435	1	1/2" x 60" Std. Pipe (Conn. Tank to Ck.Valve.)
	M	S		T-10	6R-4435	1	1/2" x 6'-5-3/8" Std. Pipe (Conn. Tank to Ell)
	M	S		T-11	6R-4435	1	1/2" x 14-3/4" Std. Pipe (Ck. Valve to Ell)
	M	S		T-13	6R-4435	2	1/2" x 37-3/16" Std. Pipe (Center Sill to Outside Ell)
	M	S		T-14	6R-4435	2	2" x 4" Std. Pipe (Filler Hose to St. Ell) threaded one end
	M	S		T-15	6R-4435	1	1/2" x 88" Std. Pipe (Outside Ell to Eng. Comp. Ell)
	M	S		T-16	6R-4435	1	1/2" x 86" Std. Pipe (Outside Ell to Eng. Comp. Ell)
	M	S		T-17	6R-4435	2	1/2" x 3-1/2" Std. Pipe (Eng. Comp. Ell to Eng. Comp. Deck)
	F	S		T-18	6R-4435	2	1/2" Std. Pipe Coupling (At T-17)
	F	S		T-19	6R-4435	2	1/2" x 1/4" Reducing Brushing (Into T-18)
	F	S		T-20	6R-4435	1	1/2" Std. Check Valve (Stockham B-316 125 Lb. Pressure)
	F	S		T-21	6R-4435	2	2" Dresser Coupling (Style 65 Reg)(Tank to Conn. Tank)
	F	S		T-22	6R-4435	2	1" Dresser Coupling (Style 65 Reg)(Tank to Conn. Tank)
	F	S		T-23	6R-4435	2	3/4" Dresser Coupling (Style 65 Reg)(Vent Pipe to Tank) 2-1" Clamps
	F	B				2	90° Elbows, "Aeroquip" No. 2003-4-6-B
	F	B		T-28	381-3837	2	Fuel Strainer
	M	S		T-40	441-3574	4	Fuel Pipe Clamp 1/4" x 1-1/2" x 3-1/2"
	M	S		T-41	441-3574	3	Fuel Pipe Clamp Brk't 1-1/2" x 1-1/2" x 1/4" x 4-1/2" angle
	M	S		T-42	441-3574	1	Fuel Pipe Clamp Brk't 1-1/2" x 1-1/2" x 1/4" x 12-7/8" angle
	M	S		T-43	441-3574	2	Reinforcing Plate 1/4" x 4" x 6-5/8"
	F	S		Pin#1	163-3616	6	Forged Pins 1-3/32" x 3-1/2"
	F	S				6	Cotter Key 3/8" x 2-1/2" (Lock-Tite)
	F		3#		3R-4413	1	Dial Type Fuel Gauge (Liquidometer Model D-6)
	F					1	Dial Type Fuel Gauge Gasket (Furnished with Gauge)
	F					2	Inlet Check Valve (Buckeye #820-C) 1" Male & 1" Female
	P	S				2	1" Cored Pipe Plug

FUEL CONNECTING TANK

Drawing No. 2R-4438

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	ITEM
					2R-4438	1	Conn.Tank Complete Consists of the following:
	M	S		T-31	2R-4438	1	Well Casing 6-5/8" O. D. x 12-3/8"
	M	S		T-32	2R-4438	2	Nipple 2" x 5-1/4" (Unthreaded)
	M	S		T-33	2R-4438	2	Nipple 1" x 5-13/16" (Unthreaded)
	M	S		T-34	2R-4438	1	Baffle 5-15/16" x 1/8" x 12-3/8 Plt.
	M	S		T-35	2R-4438	2	Hanger 10" x 1/4" x 16" Plt.
	M	S		T-36	2R-4438	1	Strap 2" x 1/4" x 11-7/8" Bar
	M	S		T-37	2R-4438	2	Angle 3" x 2" x 3/8" x 10"
	M	S		T-38	2R-4438	1	Std. Pipe 1/2" x 20-5/8"
	M	S		T-39	2R-4438	1	Std. Pipe 1/2" x 19-5/8"

Revised April 15, 1958

MACHINE COMPARTMENT

DRAWING NO. 3R-4472

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	ITEM
	M	S		B-1	2R-4531	3	Bulkhead Post 4" x 13.0# x 10'-4-7/8" "H" Beam
	M	S		B-2	2R-4531	1	Bulkhead Post-Side 4" x 8.2# "Z" x 10'-4-7/8"
	M	S		B-3	2R-4531	1	Bulkhead Post-Side 4" x 8.2# "Z" x 10'-4-7/8"
	M	S		B-4	2R-4530	1	Header 11" x 1/4" x 8'-11-7/8"
	M	S		B-5	2R-4530	2	Header End Plate 1/4" x 3-1/2" x 12"
	M	S		B-6	2R-4530	3	Bulkhead Brace 2-1/2" x 2-1/2" x 3/8" x 44-13/16"
	M	S		B-7	2R-4530	3	Bulkhead Brace Plate 3/8" x 4-1/2" x 12"
	M	S		B-96	1R-4519	1	Compartment Lining @ Seam Cap 11-5/8" x 12 Ga. x 9'-0-1/4"
	M	S		B-77	1R-4519	2	Compartment Lining @ Side 4-13/16" x 12 Ga. x 39-3/4"
	M	S		B-8-C	3R-4528	1	Compartment Lining 48" x 12 Ga. x 10'-4" } 175 cars
	M	S		B-9-C	3R-4528	1	Compartment Lining 32-1/2" x 12 Ga. x 10'-4" } 175 cars
	M	S		B-10-C	3R-4528	1	Compartment Lining 32-1/2" x 12 Ga. x 10'-4" } 175 cars
	M	S		B-8-E	3R-4527	1	Compartment Lining 48" x 12 Ga. x 10'-4" } 25 cars
	M	S		B-9-E	3R-4527	1	Compartment Lining 32-1/2" x 12 Ga. x 10'-4" } 25 cars
	M	S		B-10-E	3R-4527	1	Compartment Lining 32-1/2" x 12 Ga. x 10'-4" } 25 cars
	M	S		B-8-T	3R-4529	1	Compartment Lining 48" x 12 Ga. x 10'-4" } 300 cars
	M	S		B-9-T	3R-4529	1	Compartment Lining 32-1/2" x 12 Ga. x 10'-4" } 300 cars
	M	S		B-10-T	3R-4529	1	Compartment Lining 32-1/2" x 12 Ga. x 10'-4" } 300 cars
	F	G				46	3/4" x #10 - 24 Phillips Hd. Steel Thread Cutting Screw Type#1 Pan Hd.
	F	R				1	Grommet 1/4" ID to fit 1/2" Hole (General Cement #1043-G)

THERMOMETER

F	S	30#		021-4236	1	Dial Thermometer (American) 4-1/2", Type 6440-RC-7, Range 20/100°F., complete with 110" Stainless Steel Tubing and Mercury Bulb.
F					1	Fiber Tube 3/4" I.D. x 5-1/2"
F					4	Plastic Clamps, 1/4" Loop Type.

Revised May 27, 1958

BILL OF MATERIAL FOR CARS IN CLASS R-40-30

BILL OF MATERIAL FOR CARS IN CLASS R-40-30

SUB FLOOR

Drawing No. 3R-4422

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	ITEM
	M	S		F-1	3R-4422	2	Sub Floor 49-3/8" x #12 Ga. x 79-3/16"
	M	S		F-2	3R-4422	2	Sub Floor 49-3/8" x #12 Ga. x 79-3/16"
	M	S		F-3	3R-4422	4	Sub Floor 49-3/8" x #12 Ga. x 8'-2"
	M	S		F-4	3R-4422	2	Sub Floor 49-3/8" x #12 Ga. x 4'-3-1/4"
							Welding Rod as required

STRINGERS & FLOOR

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	ITEM
	M	W		F-5	3R-4420	2	Floor Stringer 2-3/4" x 6" x 16'-4"
	M	W		F-6	3R-4420	2	Floor Stringer 1-5/8" x 6" x 16'-4"
	M	W		F-7	3R-4420	2	Floor Stringer 2-3/4" x 6" x 15'-10-1/4"
	M	W		F-8	3R-4420	2	Floor Stringer 1-5/8" x 6" x 15'-10-1/4"
	M	W		F-9	3R-4420	2	Floor Stringer 2-3/4" x 6" x 4'-11"
	M	W		F-10	3R-4420	2	Floor Stringer 1-5/8" x 6" x 4'-11"
	M	W		F-6A	3R-4420	1	Floor Stringer 1-5/8" x 6-1/8" x 16'-4"
	M	W		F-8A	3R-4420	1	Floor Stringer 1-5/8" x 6-1/8" x 15'-10-1/4"
	M	W		F-10A	3R-4420	1	Floor Stringer 1-5/8" x 6-1/8" x 4'-11"
	F					C/S	Insulation - Floor (PFE Schedule F-65)
	M	W			122-3617	80	Decking 1-3/4" x 5-1/4" x 8'-8-3/8"
	M	W		W-30	2R-4654	2	Threshold Filler 2-1/2x5-9/16" x 6'-2-1/2"
	M	G			3R-4508	1	Drain Pan "A" End
	F	G	10#		023-4062	2	Drain Pan Heater Well
	M	G			2R-4509	1	Drain Pan "B" End
	F	P			1R-4645	2	Drain Tube
	F	G			1R-4644	2	Wind Guard Bracket
	F	A			1R-4641	2	Wind Guard
	F	S			1R-4646	2	Helical Twist Spring
	F	G			1R-4642	2	Wind Guard Bracket Support
	F	G			1R-4643	2	Drain Tube Flange
						* 18	Lin. Ft. 1/16" x 2" Caulking Compound (PFE Spec. 801)
						40	Lin. Ft. 1/16" x 1-1/2" 3M Sealer EC 1202 Tape
	F	R			1R-4534	2	Rubber Grommets (Drain Spout)
	F	S				12	#10 x 1/2" R.H. Self-Tapping Screw
					1R-4503	2	Heater Well Air Lock #16 Ga.

Revised June 11, 1958

* See note on Page 23

FRAMING - WALLS

DRAWING NO. 6R-4510

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	ITEM
	M	W		W-1	3R-4424	2	Door Post 2-1/2" x 4-3/32" x 8'-10-3/4"
	M	W		W-2	3R-4424	2	Door Post 2-1/2" x 4-3/32" x 8'-10-3/4"
	M	W		W-3	3R-4424	1	Door Header 4-11/32" x 4-13/32" x 6'-7-3/4"
	M	W		W-4	3R-4424	1	Door Header 4-11/32" x 4-3/8" x 6'-7-3/4"
	M	HW		W-19	3R-4424	2	Door Post Facing 1-3/8" x 5-1/8" x 8'-10-3/4"
	M	HW		W-20	3R-4424	2	Door Post Facing 1-3/8" x 5-1/8" x 8'-10-3/4"
	M	W		W-5	3R-4431	1	Top Belt Rail - BL 2-5/8" x 4-5/8" x 16'-11-3/8"
	M	W		W-6	3R-4431	1	Top Belt Rail - BR 2-5/8" x 4-5/8" x 16'-11-3/8"
	M	W		W-7	3R-4431	1	Top Belt Rail - AL 2-5/8" x 4-5/8" x 13'-0"
	M	W		W-8	3R-4431	1	Top Belt Rail - AR 2-5/8" x 4-5/8" x 13'-0"
	M	W		W-9	3R-4432	4	Belt Rail 2-5/8" x 4-5/8" x 16'-11-3/8"
	M	W		W-10	3R-4432	4	Belt Rail 2-5/8" x 4-5/8" x 12'-9"
	M	W		W-11	3R-4433	1	Coping Board 2-3/4" x 7-3/4" x 16'-11-3/8"
	M	W		W-12	3R-4433	1	Coping Board 2-3/4" x 7-3/4" x 16'-11-3/8"
	M	W		W-13	3R-4433	1	Coping Board 2-3/4" x 7-3/4" x 12'-9"
	M	W		W-14	3R-4433	1	Coping Board 2-3/4" x 7-3/4" x 12'-9"
	M	W		W-15	1R-4434	5	Vertical End Post 2-11/16" x 5-5/8" x 9'-7" ("B"-end)
	M	W		W-16	1R-4434	20	Sub Lining Nailer, End 1-5/8" x 2-11/16" x 20-3/4" (B-end)
	M	W		W-17	3R-4432	56	Sub Lining Nailer 3/4" x 3-5/8" x 24-3/4" - Side
	M	W		W-18	3R-4432	28	Sub Lining Nailer 3/4" x 3-5/8" x 43" - Side
	M	W		W-21	1R-4434	1	Back Pan Rail 1-3/4" x 2-11/16" x 8'-8-3/8"
	M	PW		W-23	2R-4427	22	Spacer Block 1-1/4" x 3" x 7-3/4")
	M	PW		W-24	2R-4427	16	Spacer Block 1-1/4" x 4" x 4-3/4") - See Schedule PW-1-W
	M	PW		W-25	2R-4427	44	Spacer Block 1-1/4" x 4" x 7-1/2")
	M	PW		W-26	2R-4427	2	Spacer Block 1-1/4" x 4" x 4")
	F					c/s	Insulation - Walls (Schedule W-68)
	F					c/s	Vapor Barrier - Walls (Schedule VB-2-W)
	F	S				48	2-1/2"- #18 F.H. Wood Screw (Door Post Facing)
	M	W				60	L.Ft. 3/4" x 3/4" Moulding - Sub Lining @ Sub Ceiling
	M	W		W-17A	3R-4432	14	Floor Rack Holder Cripples 3/4" x 6 x 24-3/4"
	F					330	L.Ft. 1/16" x 1-1/2" 3M Sealer EC-1202 (Sub Lining & Ceiling Jts)
	F					110	L.Ft. 1/16" x 2" 3M Sealer EC-1202 (Sub Lining & Ceiling Jts)
	M	W				1	Horizontal Nailer - Bottom B-end 1-3/4" x 2-11/16" x 8'-6-1/2"
						51	L.Ft. 1/16" x 2" Caulking Compound (Door Header, Floor Pan) (Door Flashing, Side Door)

BILL OF MATERIAL FOR CARS IN CLASS P-40-30

Revised May 27, 1958
Revised June 24, 1958
Revised August 20, 1958

A-END FRAMING

ITEM EQUIPCO CAR - 3R-4539

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	
	M	W		B-38	3R-4540	3	Vertical Post-Inter. 2-3/4" x 4-5/8" x 7'-10-7/8"
	M	W		B-39	3R-4540	1	Vertical Post-Side 2-3/4" x 3-5/8" x 7'-10-7/8"
	M	W		B-40	3R-4540	4	Top Nailer 1-5/8" x 3-5/8" x 21-1/8"
	M	W		B-41	3R-4540	1	Top Support Rail 2-3/4" x 3-5/8" x 8'-7-1/8"
	M	W		B-42	3R-4540	2	Top Post-Inter. 2-1/8" x 4-5/8" x 24-7/16"
	M	W		B-43	3R-4540	2	Top Post-Side 2-1/8" x 3-5/8" x 24-7/16"
	M	W		B-44	3R-4540	2	Bottom Nailer-Side 2-3/4" x 3-5/8" x 21-1/8"
	M	W		B-45	3R-4540	2	Bottom Nailer-Inter. 2-3/4" x 3-5/8" x 19-7/8"
	M	G			2R-3660	1	48" x 20 Ga. x 90" Metal Lining at Cooling Coil
	M	G			2R-3660	2	27-1/4x20Ga.x 90" Metal Lining at Cooling Coil
	M	W				C/S	For Spacer Block See Schedule PW-1-W
	M	G			2R-4657	1	Metal Sub Lining at Blower 22-1/4" x 24 Ga. x 52"
	M	W		B-46	3R-4540	1	Ceiling Support Nailer 1-5/8" x 3-5/8" x 8'-7-1/8"
	M	W			2R-4621	C/S	"A" End Lining - Plywood (Schedule PW-1-W)
	M	G			1R-4625	1	Reinf. Angle at Blower 3" x 2" x #12 Ga. x 16"
	M	W		B-39-A	3R-4540	1	Vertical Post - Side 2-3/4" x 3-5/8" x 7'-11-3/8"
	M	G		C-27	1R-4660	2	Fan Outlet Diffuser 25" x 24 Ga. x 35-1/2"
	M	W			2R-4425	2	Filler at Cooling Coil 1-3/4" x 8" x 8'-8-1/4" Fir.

BILL OF MATERIAL FOR CARS IN CLASS R-40-30

Revised June 11, 1958
Rev. August 8, 1958

A-END FRAMING

ITEM TRANE CARS - 3R-4537

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	
	M	W		B-11	3R-4538	1	Bottom Belt 2-3/4" x 5-5/8" x 8'-7-1/8"
	M	W		B-14	3R-4538	1	Inter. Belt-Top 2-3/4" x 5-5/8" x 8'-7-1/8"
	M	W		B-15	3R-4538	1	Top Belt 2-3/4" x 5-5/8" x 8'-7-1/8"
	M	W		B-21	3R-4538	2	Top Post-Side 2-3/4" x 3-5/8" x 15-1/2"
	M	W		B-22	3R-4538	2	Top Post-Center 2-3/4" x 4-5/8" x 15-1/2"
	M	W		B-24	3R-4538	2	Top Nailer-Side 1" x 2-3/4" x 21-1/8"
	M	W		B-25	3R-4538	2	Top Nailer-Center 1" x 2-3/4" x 19-7/8"
	M	W		B-26	3R-4538	1	Bottom Belt @ Evap. 2-3/4" x 5-5/8" x 8'-0-9/16"
	M	W		B-27	3R-4538	1	Top Belt @ Evap. 2-3/4" x 5-5/8" x 8'-7-1/8"
	M	W		B-28	3R-4538	1	Inter. Belt 2-3/4" x 3-5/8" x 8'-7-1/8"
	M	W		B-29	3R-4538	1	Bottom Post-Side 2-3/4" x 3-5/8" x 23-1/2"
	M	W		B-30	3R-4538	1	Bottom Post-Right Side 2-3/4" x 3-5/8" x 42-3/8"
	M	W		B-31	3R-4538	3	Bottom Post-Center 2-3/4" x 4-5/8" x 23-1/2"
	M	W		B-32	3R-4538	1	Inter. Post @ Evap. Side 2-3/4" x 3-5/8" x 13-1/4"
	M	W		B-33	3R-4538	3	Inter. Post @ Evap. Center 2-3/4" x 4-5/8" x 13-1/4"
	M	W		B-34	3R-4538	2	Inter. Post-Side 2-3/4" x 3-5/8" x 18-3/16"
	M	W		B-35	3R-4538	3	Inter. Post-Center 2-3/4" x 4-5/8" x 18-3/16"
	M	W		B-36	3R-4538	5	Vertical Nailer-Side 1-5/8" x 3-5/8" x 8-9/16"
	M	W			1R-4359	1	Refrigerant Line Box Lining (1/4" S.H. Plywood)
						c/s	For Spacer Block see Schedule PW-1-W
	F	G		B-61	3R-4544	1	Bulkhead Reinforcement - Side
	F	G		B-62	3R-4544	1	Bulkhead Reinforcement - Side
	F	G		B-63	3R-4544	3	Bulkhead Reinforcement - Bottom
	F	G		B-64	3R-4544	3	Bulkhead Reinforcement - Top
	F	G		B-65	3R-4544	2	Bulkhead Reinforcement Extension
	M	G		B-70	2R-4688	1	48" x 20 Ga. x 52" Metal Lining at Evaporator
	M	G		B-71	2R-4688	2	37-3/4"x20 ga. x 52" Metal Lining at Evaporator
	M	G		L-13	122-3561	1	Metal Sub Lining at Blower 22-3/8" x 24 Ga. x 51"
	M	W			2R-4620	C/S	"A" End Lining - Plywood (Schedule PW-1-W)
	M	G		C-25	2R-4659	1	Fan Outlet Diffuser 35" x 24 Ga. x 24"
	M	G		C-26	2R-4659	1	Fan Outlet Diffuser 30-1/2" x 24 Ga. x 24"

BILL OF MATERIAL FOR CARS IN CLASS E-40-30

Revised June 11, 1958
Rev. June 24, 1958

A - END FRAMING

CARRIER CARS - 3R-4535

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	ITEM
	M	W		B-11	3R-4536	1	Bottom Belt 2-3/4" x 5-5/8" x 8' - 7-1/8"
	M	W		B-12	3R-4536	1	Inter. Belt 2-3/4" x 5-5/8" x 7' - 9-1/16"
	M	W		B-13	3R-4536	1	Inter. Belt 2-3/4" x 5-5/8" x 8' - 7-1/8"
	M	W		B-14	3R-4536	1	Inter. Belt Top 2-3/4" x 5-5/8" x 8' - 7-1/8"
	M	W		B-15	3R-4536	1	Top Belt 2-3/4" x 5-5/8" x 8' - 7-1/8"
	M	W		B-16	3R-4536	1	Bottom Post - Side 2-3/4" x 3-5/8" x 34-1/2"
	M	W		B-17	3R-4536	3	Bottom Post - Center 2-3/4" x 4-5/8" x 34-1/2"
	M	W		B-18	3R-4536	1	Inter. Post - Right 2-3/4" x 3-5/8" x 62-13/16"
	M	W		B-19	3R-4536	1	Inter.Post - Side 2-3/4" x 3-5/8" x 22-11/16"
	M	W		B-20	3R-4536	3	Inter. Post - Center 2-3/4" x 4-5/8" x 22-11/16"
	M	W		B-21	3R-4536	2	Top Post - Side 2-3/4" x 3-5/8" x 15-1/2"
	M	W		B-22	3R-4536	2	Top Post - Center 2-3/4" x 4-5/8" x 15-1/2"
	M	W		B-23	3R-4536	5	Vertical Nailer 1-5/8" x 3-5/8" x 10"
	M	W		B-24	3R-4536	4	Top & Bottom Nailer - Side 1" x 2-3/4" x 21-1/8"
	M	W		B-25	3R-4536	4	Top & Bottom Nailer - Center 1" x 2-3/4" x 19-7/8"
	M	W			1R-4359	1	Refrigerant Line Box Lining (1/4" S.H. Plywood)
						c/s	For Spacer Blocks see Schedule PW-1-W
	F	G		B-65	3R-4608	2	Bulkhead Reinforcement Extension
	F	G		B-66	3R-4608	1	Bulkhead Reinforcement - Side
	F	G		B-67	3R-4608	1	Bulkhead Reinforcement - Side
	F	G		B-68	3R-4608	3	Bulkhead Reinforcement
	F	G		B-69	3R-4608	3	Bulkhead Reinforcement
	M	G			2R-3643	1	48" x 20 Ga. x 72" Metal Lining at Evaporator
	M	G			2R-3643	2	36" x 20 Ga. x 72" Metal Lining at Evaporator
	M	G		L-13	122-3561	1	Metal Sub Lining at Blower 22-3/8" x 24 Ga. x 51"
					2R-4619	C/S	"A" End Lining - Plywood (Schedule PW-1-W)
	F	G				1	Evaporator Metal Sheet 30" x 24 Ga. 86"
	M	W			1R-4653	5	Filler at Evaporator 2" x 2" x 27-1/4"
	M	W			1R-4653	1	Filler at Evaporator 2" x 2" x 8'-0"
	F	G				22	Wood Screw 2-1/2" x #14 Galv. F.H.
	M	G		C-84	021-3525	2	Fan Outlet Diffuser 27" x 24 Ga. x 35-1/2"
	M	G		B-70	1R-4264	1	Baffle at Evaporator 8" x 20 Ga. x 12-1/4"
	M	G		B-71	1R-4264	1	Baffle at Evaporator 8" x 20 Ga. x 13"

BILL OF MATERIAL FOR CARS IN CLASS R-40-30

Revised June 11, 1958
Revised July 18, 1958

UPPER FRAMING & CEILING

ITEM DRAWING NO. 6R-4510

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	
	M	W		C-4	2R-4429	12	Carline 2-3/4" x 4-5/8" x 8'-11-1/8"
	M	W		C-5	2R-4429	1	Carline - B End 2-7/8" x 4-5/8" x 8' - 11-1/8"
	M	W		C-11	2R-4429	60	Sub Ceiling Nailer 1-5/8" x 2-5/8" x 33-1/4"
	M	W		C-10		12	Sub Ceiling 5/16" x 36" x 103-¼" (Schedule P-3-S)
	M	S		C-2	121-3674	24	Carline Bracket 2-1/2" x 1/4" x 7"
	M	S		C-3	121-3674	24	Carline Bracket Washer 2" x 12 Ga. x 2"
	M	G		C-6	121-3692	33	Ceiling Hanger 2" x 12 Ga. x 8-3/4"
	M	G		C-7	121-3692	6	Ceiling Nailer Conn. 2-5/8" x 12 Ga. x 7-3/4"
	M	G		C-8	121-3692	3	Ceiling Nailer Conn. 2" x 1/4" x 5"
	[illegible]	[illegible]			[illegible]	1	Sub Ceiling 5/16" x 5-3/4" x 103-1/4" (Schedule P-3-S)
	F					C/S	Roof Insulation (Schedule R-67)
	F					C/S	Reflective Insulation (Schedule P-1-R)
	M	W		C-17	2R-4505	2	Ceiling Nailer - Side 1-5/8" x 1-5/8" x 11'-10-7/8"
	M	W		C-18	2R-4505	2	Ceiling Nailer-Side 1-5/8" x 1-5/8" x 16'-9-3/8"
	M	W		C-16	2R-4505	3	Ceiling Nailer 1-3/4" x 2-5/8" x 27"
	M	W		C-13	2R-4505	3	Ceiling Nailer 1-3/4" x 2-5/8" x 9'-3-1/16"
	M	W		C-15	2R-4505	3	Ceiling Nailer 1-3/4" x 2-5/8" x 9'-3-13/16"
	M	W		C-14	2R-4505	3	Ceiling Nailer 1-3/4" x 2-5/8" x 15'-4"
	M	A		C-24	1R-4622	2	Doorway Flashing 8-3/4" x 10 Ga. x 6'-7 3/4" (Alloy 3003-H-12)
	F	A		C-84	2R-4373	16	Ceiling, Alum. Roofing, Diamond Patt. 24" x.040" x98-7/8"
	F	A		C-85	2R-4373	1	Ceiling, Alum. Roofing, Diamond Patt. 31" x.040" x98-7/8"
	F	A		C-82	1R-4372	16	Extrusion, Alum. 98-3/4"
	F	A		C-83	1R-4372	2	Extrusion, Alum. 98-3/4"
	F	A			1R-4305	56	Diffuser, Alum. .040" x 4"
	F	G				16	Metal Screw 2" #16 R.H. Galv. (Doorway Flashing)
	F	A				289	Wood Screw 3/4" #10 P.H. Alum. Phillips Head (Ceiling)
	F	A				102	Wood Screw 1" #10 P.H. Alum. Phillips Head (Extrusion)
	F	A				225	Metal Screw 1/2" # 10 Phillips Head Self Tapp. (Diffuser)
	M	PW				1	Panel @ Blower (See Schedule PW-1-W)
	[illegible]	[illegible]					

BILL OF MATERIAL FOR CARS IN CLASS R-40-30

Revised June 12, 1958
Rev. June 24, 1958

LINING

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	ITEM
	M	W				c/s	Pressed Wood Sub Lining (Schedule P-3-S)
	M	W		L-28	1R-4498	5	Lining Nailer 7/8" x 3-5/8" x 8'-2-5/16" (B-End)
	M	W		L-26	1R-4498	24	Lining Nailer 31/32" x 3-5/8" x 8'-8"
	M	PW				c/s	B-End Lining (Schedule PW-1-W)
	M	W			122-3617	c/s	T&G Lining - Side Wall 25/32" x 3-1/4"
	F	B	1#		1R-4415	2	Chest Handle "Adlake" No. 77 Cast Bronze
	F	S			2R-4633	28	Floor Rack Hinge Butt
	F	G			3R-4640	14	Floor Rack Holder Base & Pin
	F	G			3R-4640	14	Floor Rack Holder Hook
	F	S	2#		3R-4533	24	Lading Strap Anchor
	F	G				42	#14 x 1-3/4" R.H. Wood Screws (F.R. Holder Base)
	M	W				14	Filler @ Floor Rack Holder 31/32" x 8" x 8"
	M	W		L-27	1R-4498	4	Lining Nailer 31/32" x 5-5/8" x 8'-8"
	M	W				C/S	Wall Flue Filler - Side 13/32" x 1-1/2" x 59 Lin. Ft. (Redwood)
	M	W				1	Wall Flue Filler - End 5/16" x 1-1/2" x 8'-6-1/2" (Redwood)
	M	G				1	16" x 20 Ga. x 111" Sheet (B-end pan)
	F					35	Lin.Ft. 1/16" x 2" - 3M sealer EC-1202 tape

BILL OF MATERIAL FOR CARS IN CLASS R-40-30

Revised May 27, 1958

STEEL ROOF

DRAWING NO. 4R-4545

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	ITEM
	P	G			1R-4635	10	Intermediate Sheet #14 Ga. Galv.
	P	G			1R-4636	1	End Sheet - "A" End #14 Ga. Galv.
	P	G			1R-4637	1	End Sheet - "B" End #14 Ga. Galv.
	P	S			1R-4638	10	Seam Cap
	P	S			1R-4639	1	Special Seam Cap
	P	G			1R-4512	6	Inter. Running Board Saddle
	P	G			1R-4514	2	End Running Board Saddle
	P	G			1R-4513	5	Splice Running Board Saddles
	P	S			1R-4483	20	Side Plate Fillers - Regular
	P	S			1R-4484	2	Side Plate Fillers - Special
	F	S			3R-4488	2	Roof Handhold Fig. 149
	F					* 104	Lin.Ft. Caulking Compound 1/16" x 1" (Permagum or equal)
	M	S			1R-4511	4	End Lat. Section Support @ ZU Plt. 3/8" x 2" x 8"
	F	S	380#		4R-4543	C/S	Running Board - Morton
	F	S			3R-4411	1	Brake Step - Morton

No Lat Rbd

* If bought in bulk a total of 5/8 Gal. per car will be required.

Revised May 27, 1958

BILL OF MATERIAL FOR CARS IN CLASS R-40-30

WATERPROOF FLOOR

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	ITEM
	F	W				C/S	Floor Covering (Schedule P -3-S) 3/16" Pressed Wood
							Waterproofing (See page 35)
	F				90	L.Ft.	3M Sealer EC-1202 1/16" x 2" tape.
	F	S					Nails (See Nail List)
	M	W		W-29	2R-4654	2	Threshold Strip 1-5/8" x 5-9/16" x 6'-1"
	M	G		F-15	1R-4655	2	Threshold Flashing 8-3/4" x 12 Ga. x 6'-7"
	F				60	L.Ft.	3M Sealer EC-1202 1/16" x 1-1/2" tape
	F	G				24	Wood Screws 1-1/2" x #10 Galv. F.H. (Threshold Flashing)
	M	G			1R-4656	C/S	Floor Flashing 2-1/2" x 2-1/2" x #24 Ga. Galv. 60 Lin. Ft.
						24	1" x 1/4"-20 Steel Type #1, Slotted Flat Head, Self Tapping Metal Screws [illegible] (Threshold Flashing)
	F	R	7#		122-3790	2	Threshold Plate 1/2" x 3-1/4" x 6'-7"
	F	G				44	1" x 1/4"- 20 Type #1 Slotted F.H. Steel Thread Cutting Screw

BILL OF MATERIAL FOR CARS IN CLASS R-40-30

MATERIAL
A—Aluminum
B—Brass
C—Copper
R—Rubber
S—Steel Black
W—Wood
G—Galv. Steel

SOURCE OF SUPPLY
F—Furnished complete by an outside manufacturer.
M—Raw material to be purchased and fabricated by PFE.
P—A component part of an item that is furnished complete by an outside manufacturer.
O—An item furnished by one manufacturer to form a part of an assembly furnished by another.
SH—Secondhand, Reclaimed or Reconditioned material.

Revised June 11, 1958

SIDE DOOR

DRAWING NO. 4R-4570

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	ITEM
	P	S		1	3R-4553	2	Framing & Panel
	P	S		2	2R-4563	2	Cam Operating Rod Assembly R.H.
	P	S		3	2R-4563	2	Cam Operating Rod Assembly L.H.
	P	S		4	3R-4571	2	Upper & Lower Crank Assembly with Kicker Lug
	P	S		5	3R-4571	2	Upper & Lower Crank Assembly
	P	S		6	2R-4561	4	Operating Rod Bearing S-27 & S-29
	P	S		7	2R-4561	12	Operating Rod Bearing S-27 & S-28
	P	S		8	2R-4562	8	Operating Rod Bearing Guide
	P	S		9	4R-4572	2	Operating Lever L.H. DF-1214-1
	P	S		10	4R-4572	2	Operating Lever R.H. DF-1214
	P	S		11	1R-4557	2	Door Lever Holder
	P	S		12	1R-4560	2	Door Handle
	P	S		15		4	Roller Assembly
	P	S		16		16	1/8" Alemite Fittings
	P	S			1R-4558	2	Lever Lock D1217
	P	S			1R-4556	2	Seal Lock 1218
	P	S			2R-4564	4	Upper Crank Arm
	P	S			2R-4566	4	Lower Crank
	M	W		D-1	4R-4526	2	Door Stile 2-3/16" x 6-1/16" x 8'-8-3/8"
	M	W		D-2	4R-4526	2	Door Stile 2-3/16" x 6-1/16" x 8'-8-3/8"
	M	W		D-3	4R-4526	4	Top & Bottom Rail 1-7/8" x 6-1/16" x 5'-8-1/2"
	M	W		D-4	4R-4526	2	Intermediate Post 1-11/16" x 3-5/8" x 8'-4-5/8"
	M	W		D-5	4R-4526	4	Aux. Door Stile 2-1/4" x 2-13/16" x 9'-2"
	M	W		D-6	4R-4526	4	Aux. Door Rail 2-1/4" x 2-13/16" x 6'-0-7/8"
	M	W		D-7	2R-4427	8	Spacer Block 1-1/2" x 4" x 4" (Schedule PW-1-W)
	F					C/S	Insulation (Schedule W-68)
	M					C/S	Sub Lining-Pressed Wood (Schedule P-3-S)
	M	W		D-8	1R-4604	4	Lining Nailer 1-3/4" x 2-5/8" x 8'-1-5/8" Hardwood
	M	W		D-9	1R-4604	2	Lining Nailer Inter. 31/32" x 3-5/8" x 8'-8-3/8"
	F	W			122-3617	C/S	Lining 25/32" x 3-1/4" T&G
	F	R				C/S	Door Seal
	F	G				40	Wood Screw 3" x #16 Galv. F.H. (Lining Nailers)
	F					76 Ft.	EC. 1202 1/16" x 1-1/2" (To seal door framing)
	M	G		D-23	181-3325	4	Door Protection Strip 2" x 12 Ga. x 5'-11"
	F					1 lb.	Std. Artic Cup Grease No. 2

BILL OF MATERIAL FOR CARS IN CLASS R-40-30

Revised May 27, 1958
Rev. June 24, 1958

MECH. REFRIG. UNIT-CARRIER

DRWG. 4R-4650 100328 - 100502

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	ITEM
	P	S			4R-4649	1	Evaporator Coil Assembly
	P	S			123-4029	1	Blower Assembly
	P	S			4R-4652	1	Condensing Unit Assembly
	P	S			4R-4648	1	Refrigeration Control Panel Assembly
	P	S				1	Static Pressure Differential Switch
	F	S			6R-4552	1	Engine & Alternator Assembly (Witte)
	F					1	Electrical Control Panel
	F		62#			1	Battery 12 Volt Heavy Duty "Sonotone" No. 60M-320
	F					1	Battery Cable 58" Long
	F					1	Battery Cable Terminal
	F					1	Battery Cable Lug (Cresent No. 1467-A)
	F					2	NCP-8 Nylon Clamp, Loop Type, Size 1/2" (Sensing Element)
	M	S		BB-1	123-3849	1	Battery Box Cover 5-1/4" x 12 Ga. x 34"
	M	S		BB-2	123-3849	2	Battery Box Side Angle 1-1/2" x 1-1/2" x 1/4" x 35-1/4"
	M	S		BB-3	123-3849	2	Battery Box Side Strap 1/4" x 1-1/2" x 19-3/4"
	M	S		BB-4	123-3849	2	Battery Box End Angle 1-1/2" x 1-1/2" x 1/4" x 5-9/16"
	M	S		BB-5	123-3849	2	Battery Box End Angle 1-1/2" x 1-1/2" x 1/4" x 3-1/16"
	M	S		BB-6	123-3849	2	Battery Box Back Strap 1/4" x 1-1/2" x 16"
	M	W			123-3849	C/S	Battery Box Fillers (S.H. 1/4" Plywood)
	P	S				1	Muffler - Witte
	M	S			321-4003	1	Muffler U-Bolt 3/8" x 10"
	M	S				1	Muffler Mounting Angle 1-1/2" x 1-1/2" x 1/4" x 50"
	F	R			283-4113	1	Log Book Holder - Flexi
	F				2-1/2 Gal.		Anti-Freeze (Prestone or equal)
	F				24 Qts.		Oil, Heavy Duty S.A.E. 30
	M	S			1R-4337	1	Service Manual Holder 12-1/2" x 18 Ga. x 16-3/8"
	F					1	Eye Shield, Swift No. A-1 Depth 3/8" Thickness .030
	M	S			1R-4338	1	Eye Shield Holder 12" x 18 Ga. x 16-3/4"
	F				3R-4428	1	Drain Pan Heater Assembly
	F	R				1	Drain Pan Heater Rubber Foot 8'-3" Long
	F				1 Pkg.		Lockfoam -Regular No. B-402-SS (540 cu.in.)
	F					2	Flexible Fuel Line (Aeroquip Hose #152400-6-12)
	F	R			1R-4647	1	Gasket, Neoprene 3/16" x 6-1/2" x 10-7/8"
	M	G			1R-4419	2	Gasket Strip 1" x 12 Ga. Galv. x 4-1/2"
	M	G			1R-4419	2	Gasket Strip 1" x 12 Ga. Galv. x 10-7/8"
	M	R				1	Gasket 1/8" x 1" x 32" (Cuts 4)
	F	S				12	3/4" x #10 Self Tapp. R.H. Metal Screw (for Gasket)
	F	G				12	1/2" x #14 Self Tapp. P.H. Metal Screw (Heater Hinge)
	M	S			1R-4518	1	Capsule Can Holder 3" x 18 Ga. Galv. x 14"
	M	S			1R-4518	1	Capsule Can Holder Spring 1/2" x #18 Ga. x 3"
	M	G		1	022-4010	2	Battery Cable Clamp 1" x 16 Ga. Galv. x 3"
	F					1	Capsule Can

Revised May 27, 1958
" Aug.20, 1958

BILL OF MATERIAL FOR CARS IN CLASS R-40-30

MECH. REFRIG. UNIT-CARRIER

ITEM Car No's. 100328 - 100502

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	
	M	G		2	022-4010	3	Wire Harness Clamp 1" x 16 Ga. Galv. x 3"
	M	G		3	022-4010	3	Clamp 1/8" x 7/8" x 3-3/4"
	M	G		6	022-4010	1	Split Cup Washer 3" x 20 Ga. Galv. x 3"
	M	G		7	022-4010	3	Cup Washer 16 Ga. Galv. x 2-3/8" Round
	M	G			1R-4264	1	Air Baffle at Evap. 9" x 24 Ga. Galv. x 12-1/4"
	M	G			1R-4264	1	Air Baffle at Evap. 9" x 24 Ga. Galv. x 9"
	F	G				4	#10 x 1-3/4" R.H. Wood Screw (Air Baffle)
	F	G				4	1/4" - 20 x 1/2" R.H. Stove Bolt
	F					1	3/8" x 1/2" Hex. Hd. Cap Screw (Condensing Ground Strap)
	F					1	"Packard" No. EG-8-8 Ground Strap - Heavy Duty
	F					1	"Packard" No. 5L-11-11 Ground Strap - Heavy Duty
	F					1	Fuse Holder HMH with SFE 9 Amp. Fuse
	M	G			1R-4489	1	Thermometer Bulb Bracket 1" x 12 Ga. Galv. x 13"
	F	G				4	1/2" x #10 R.H. Metal Screw (Bulb Bracket)
	F					1	Flexible Exhaust Pipe 2-1/2" ID x 54-1/2"
	M	S			322-3846	1	Exhaust Vent Hood 7-5/8" x 12 Ga. x 12"
	M	S			322-3846	1	Exhaust Vent Hood Base 4-1/4" x 12 Ga. x 6-1/2"
	M	S			322-3846	2	Exhaust Vent Backing Plate 7-1/2" x 12 Ga. x 7-1/2"
	F					1	Exhaust Vent Asbestos Gasket 7" x 1/8" x 7"
	F					1/2	Roll 2" Tape (Prestite #165 Cork Mystic)
	M	S			1R-4479	1	Suction Line Support 2-1/2" x 12 Ga. x 18-1/4"
	F	S				1	Pipe Clamp, Ideal "Hy-Gear" Size 28
	F	G				4	3/4" x #10 - 24 Phillips Hd. Steel Thread Cutting Screw, Type #1 (Pan Hd.
	F	R				1	Gasket-Rubber 3/16" x 2" x 2" (Sensing Probe)
	F	S				4	Washer 7/32" ID
	F					1	Plastic Holder for Form 271-4
	F					3	Insulated Ring Tongue Terminals Sta-Kon No. RC-261
	F					25	Insulated Ring Tongue Terminals Sta-Kon No. RC-363
	F					1	Ring Tongue Terminal Sta-Kon No. C-10-516
	F	S				1	2-3/4" Dia. x 4" Steel Tubing, 1/16" Wall Thickness (at Muffler)
	F	S				1	Std. Pipe 2-1/2" Dia. x 8-3/4" Long (Exhaust Vent)
	F	S				1	Extra Heavy Pipe 2-1/2"Dia.x3-1/2" Long (at Muffler)
						1	Battery Ground Strap "Belden" 7-1122 with 82-A terminal
						1	Unit Ground Strap "Belden" 7-0894, 1/2" Hole on each end
						4	5/16" x 1" Type "Z" Hex. Hd. Metal Screw, Plated (Sensing Probe

BILL OF MATERIAL FOR CARS IN CLASS R-40-30

Revised June 11, 1958
July 18, 1958
" Aug. 20, 1958

MECH. REFRIG. UNIT.- EQUIPCO

BILL OF MATERIAL FOR CARS IN CLASS R-40-30

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	ITEM Car No's. 100003 - 100027
	P	S		1		1	Air Cooling Coil
	P	S		2		1	Expansion Tank
	P	S		3		1	Coil Support - Upper
	P	S		4		1	Coil Support - Lower
	P	S		5		1	Reinforcing Channel
	P	S		6		1	Reinforcing Channel
	P	S		7		1	Tank & Blower Support
	P	S		8		1	Blower Guard
	P	S		9		1	Blower Guard
	P	S		10		1	Coil Flashing - Left
	P	S		11		1	Coil Flashing - Right
	P	S		12		1	Motor & Blower Assembly
	P	G		13		1	1" x 11" Nipple
	P			14		1	Dip Stick
	P	G		15		1	1" x 43-7/8" Pipe
	P	G		16		2	1" x 12-5/8" Pipe
	P	G		17		4	1" Ell
	P	G		18		1	1" Union, Male & Female
	P	G		19		2	1" Steel Ell
	P	G		20		1	1" Close Nipple
	P	G		21		2	3/4" x 14-11/16" Pipe
	P	G		22		1	3/4" - 90° Elbow Female Union
	P	G		23		1	3/4" x 8" Nipple
	P	G		24		1	3/4" Pipe Tee
	P	G		25		1	3/4" x 2" Nipple
	P	S			4R-4541	1	Temperature Control Box
	F	S	1800#		6R-4552	1	Engine & Alternator Assembly (Witte)
	F				4R-4687	1	Condenser Assembly Pc. No. 10700
	F		62#			1	Battery 12 Volt Heavy Duty
	F					1	Battery Cable 58" Long
	F					1	Battery Cable Terminal
	F					1	Battery Cable Lug (Trade #821)
	P					1	Electrical Control Panel
	M	S		BB-1	123-3849	1	Battery Box Cover 5-1/4" x 12 Ga. x 34"
	M	S		BB-2	123-3849	2	Battery Box Side Angle 1-1/2" x 1-1/2" x 1/4" x 35-1/4"
	M	S		BB-3	123-3849	2	Battery Box Side Strap 1/4" x 1-1/2" x 19-3/4"
	M	S		BB-4	123-3849	2	Battery Box End Angle 1-1/2" x 1-1/2" x 1/4" x 5-9/16"
	M	S		BB-5	123-3849	2	Battery Box End Angle 1-1/2" x 1-1/2" x 1/4" x 3-1/16"
	M	S		BB-6	123-3849	2	Battery Box Back Strap 1/4" x 1-1/2" x 16"
	M	W			123-3849	C/S	Battery Box Fillers (S.H. 1/4" Plywood)
	P	S				1	Muffler - Witte
	M	S			321-4003	1	Muffler U-Bolt 3/8" x 10"

Revised August 8, 1958

MECH. REFRIG. UNIT-EQUIPCO

ITEM Car No's. 100003 - 100027

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	
	M	S				1	Muffler Mounting Angle 1-1/2" x 1-1/2" x 1/4" x 50"
	F	R	4-3/4#		283-4113	1	Log Book Holder - Flexi
	F				2-1/2 Gal.		Anti-Freeze (Prestone or equal)
	F				24 Qts.		Oil, Heavy Duty S.A.E. 30
	M	S			1R-4337	1	Service Manual Holder 12-1/2" x 18 Ga. x 16-3/8"
	F					1	Eye Shield, Jackson J-1 8" x .030"
	M	S			1R-4338	1	Eye Shield Holder 12" x 18 Ga. x 16-3/4"
	P					1	Drain Pan Heater Assembly
	F	R				1	Drain Pan Heater Rubber Foot 8'-3" Long
	F					2	NCP-8 Nylon Clamp, Loop Type, Size 1/2" (Sensing Element)
	F					2	Flexible Fuel Line (Aeroquip Hose #152400-6-12)
	F	G				12	1/2" x 1/4" Self Tapp. P.H. Metal Screw (Heater Hinge)
	M	S			1R-4518	1	Capsule Can Holder 3" x 18 Ga. Galv. x 14"
	M	S			1R-4518	1	Capsule Can Holder Spring 1/2" x #18 Ga. x 3"
	M	G		1	022-4010	2	Battery Cable Clamp 1" x 16 Ga. Galv. x 3"
	M	G		2	022-4010	3	Wire Harness Clamp 1" x 16 Ga. Galv. x 3"
	M	G		3	022-4010	3	Clamp 1/8" x 7/8" x 3-3/4"
	M	G		6	022-4010	1	Split Cup Washer 3" x 20 Ga. Galv. x 3"
	M	G		7	022-4010	3	Cup Washer 16 Ga. Galv. x 2-3/8" Round
	M	G				1	Air Baffle at Evap. 9" x 24 Ga. Galv. x 12-1/4"
	M	G				1	Air Baffle at Evap. 9" x 24 Ga. Galv. x 9"
	F	G				4	#10 x 1-3/4" R.H. Wood Screw (Air Baffle)
	F	G				4	1/4" - 20 x 1/2" R.H. Stove Bolt
	F					1	3/8" x 1/2" Hex. Hd. Cap Screw (Condensing Ground Strap)
	F					1	"Packard" No. EG-8-8 Ground Strap - Heavy Duty
	F					1	"Packard" No. 5L-11-11 Ground Strap - Heavy Duty
	F					1	Fuse Holder HMH with SFE 9 Amp. Fuse
	M	G			1R-4489	1	Thermometer Bulb Bracket 1" x 12 Ga. Galv. x 13"
	F	G				4	1/2" x #10 R.H. Metal Screw (Bulb Bracket)
	F					1	Flexible Exhaust Pipe - 2-1/2" x 54-1/2"
	M	S			322-3846	1	Exhaust Vent Hood 7-5/8" x 12 Ga. x 12"
	M	S			322-3846	1	Exhaust Vent Hood Base 4-1/4" x 12 Ga. x 6-1/2"
	M	S			322-3846	2	Exhaust Vent Backing Plate 7-1/2" x 12 Ga. x 7-1/2"
	F					1	Exhaust Vent Asbestos Gasket 7" x 1/8" x 7"
	M					1	Exhaust Vent Pipe 2-1/2"
	F					1	Capsule Can
	F	S				1	2-3/4" Dia. x 4" Steel Tubing, 1/16" Wall Thickness (at Muffle
	F	S				1	Std. Pipe 2-1/2" Dia. x 8-3/4" Long (Exhaust Vent)
	F	S				1	Extra Heavy Pipe 2-1/2 Dia. x 3-1/2" Long (at Muffler)

BILL OF MATERIAL FOR CARS IN CLASS R-40-30

Revised June 11, 1958
" Aug. 20, 1958

MECH. REFRIG. UNIT - TRANE

ITEM Car No's. 100028 - 100327

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	
	P	S				1	Compressor, Model 28523LY
	P	S				1	Condenser Coil
	P	S				1	Condenser Fan
	P	S				1	Condenser Fan Motor
	P	S				1	Receiver
	P	S				1	Flexible Hose
	P	S				1	Dual Pressure Switch
	P	S				1	Static Pressure Differential Switch
	F	S				1	Engine & Alternator Assembly (Witte)
	P					1	Electrical Control Panel
	F		62#			1	Battery 12 Volt Heavy Duty
	F					1	Battery Cable 58" Long
	F					1	Battery Cable Terminal
	F					1	Battery Cable Lug (Trade #821)
	M	S		BB-1	123-3849	1	Battery Box Cover 5-1/4" x 12 Ga. x 34"
	M	S		BB-2	123-3849	2	Battery Box Side Angle 1-1/2" x 1-1/2" x 1/4" x 35-1/4"
	M	S		BB-3	123-3849	2	Battery Box Side Strap 1/4" x 1-1/2" x 19-3/4"
	M	S		BB-4	123-3849	2	Battery Box End Angle 1-1/2" x 1-1/2" x 1/4" x 5-9/16"
	M	S		BB-5	123-3849	2	Battery Box End Angle 1-1/2" x 1-1/2" x 1/4" x 3-1/16"
	M	S		BB-6	123-3849	2	Battery Box Back Strap 1/4" x 1-1/2 x 16"
	M	W			123-3849	C/S	Battery Box Fillers (S.H. 1/4" Plywood)
	P	S				1	Muffler - Witte
	M	S			321-4003	1	Muffler U-Bolt 3/8" x 10"
	M	S				1	Muffler Mounting Angle 1-1/2" x 1-1/2" x 1/4" x 50"
	F	R	4.75#		283-4113	1	Log Book Holder - Flexi
	F					2-1/2 Gal.	Anti-Freeze (Prestone or equal)
	F					24 Qts.	Oil, Heavy Duty S.A.E. 30
	M	S			1R-4337	1	Service Manual Holder 12-1/2" x 18 Ga. x 16-3/8"
	F					1	Eye Shield, Jackson J-1 8" x .030"
	M	S			1R-4338	1	Eye Shield Holder 12" x 18 Ga. x 16-3/4"
	P					1	Drain Pan Heater Assembly
	F	R				1	Drain Pan Heater Rubber Foot 8'-3" Long
	F					1 Pkg.	Lockfoam - Regular No. B-402-SS (540 Cu.in.)
	F					2	Flexible Fuel Line (Aeroquip Hose #152400-6-12)
	F	R			1R-4647	1	Gasket, Neoprene 3/16" x 6-1/2" x 10-7/8"
	M	G			1R-4419	2	Gasket Strip 1" x 12 Ga. Galv. x 4-1/2"
	M	G			1R-4419	2	Gasket Strip 1" x 12 Ga. Galv. x 10-7/8"
	M	R				1	Gasket 1/8" x 1" x 32" (Cuts 4)
	M	R				12	3/4" x #10 Self Tapp. R.H. Metal Screw (for Gasket)
	F	S				12	1/2" x #14 Self Tapp. P.H. Metal Screw (Heater Hinge)

Revised May 27, 1958
July 18, 1958

BILL OF MATERIAL FOR CARS IN CLASS R-40-30

MECH. REFRIG. UNIT-TRANE

ITEM Car No's. 100028 - 100327

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	
	M	G			1R-4518	1	Capsule Can Holder 3" x 18 Ga. Galv. x 14"
	M	S			1R-4518	1	Capsule Can Holder Spring 1/2" x #18 Ga. x 3"
	M	G		1	022-4010	2	Battery Cable Clamp 1" x 16 Ga. Galv. x 3"
	M	G		2	022-4010	3	Wire Harness Clamp 1" x 16 Ga. Galv. x 3"
	M	G		3	022-4010	3	Clamp 1/8" x 7/8" x 3-3/4"
	M	G		6	022-4010	1	Split Cup Washer 3" x 20 Ga. Galv. x 3"
	M	G		7	022-4010	4	Cup Washer 16 Ga. Galv. x 2-3/8" Round
	M	G				1	Air Baffle at Evap. 9" x 24 Ga. Galv. x 12-1/4"
	M	G				1	Air Baffle at Evap. 9" x 24 Ga. Galv. x 9"
	F	G				4	#10 x 1-3/4" R.H. Wood Screw (Air Baffle)
	F	G				4	1/4" - 20 x 1/2" R.H. Stove Bolt
	F					1	3/8" x 1/2" Hex. Hd. Cap Screw (Condensing Ground Strap)
	F					1	"Packard" No. EG-8-8 Ground Strap - Heavy Duty
	F					1	"Packard" No. 5L-11-11 Ground Strap - Heavy Duty
	F					1	Fuse Holder HMH with SFE 9 Amp. Fuse
	M	G			1R-4489	1	Thermometer Bulb Bracket 1" x 12 Ga. Galv. x 13"
	F	G				4	1/2" x #10 R.H. Metal Screw (Bulb Bracket)
	F					1	Flexible Exhaust Pipe 2-1/2" x 62-1/4"
	M	S			322-3846	1	Exhaust Vent Hood 7-5/8" x 12 Ga. x 12"
	M	S			322-3846	1	Exhaust Vent Hood Base 4-1/4" x 12 Ga. x 6-1/2"
	M	S			322-3846	2	Exhaust Vent Backing Plate 7-1/2" x 12 Ga. x 7-1/2"
	F					1	Exhaust Vent Asbestos Gasket 7" x 1/8" x 7"
	F					1	Capsule Can
	F					2	NCP-8 Nylon Clamp, Loop Type, Size 1/2" (Sensing Element)
	F	S				1	2-3/4" Dia. x 4" Steel Tubing, 1/16" Wall Thickness(at Muffler
	F	S				1	Std. Pipe 2-1/2" Dia. x 8-3/4" Long (Exhaust Vent)
	F	S				1	Extra Heavy Pipe 2-1/2"Dia. x 3-1/2" Long (at Muffler)
						12	RC-363 Sta-Kon Terminal

BILL OF MATERIAL FOR CARS IN CLASS R-40-30

Revised June 11, 1958
" Aug. 20, 1958

MACH. COMPARTMENT DOOR

DRAWING NO. 4R-4470

BILL OF MATERIAL FOR CARS IN CLASS R-40-30

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	ITEM
	F	S			3R-4490	1	Mech. Compartment Door Complete with the following:
	P	S		1		1	Top Edge
	P	S		2		1	Front Edge
	P	S		3		1	Rear Edge
	P	S		4		1	Center Vertical Reinf.
	P	S		5		1	Bottom Edge
	P	S		6		2	Top Retaining Clip 2" x 3/16" x 2-7/8"
	P	S		7		2	Door Hanger R-380-S
	P	S		8		2	Hanger Backing Plate 3-7/8" x 1/4" x 6-7/8"
	P	S		9		2	Roller Bearing Roller MS-61
	P.	S		10	132-4039	1	Door Lock R-381-S
	P	S		11	131-4037	1	Sealing Cam & Door Hook
	P	S		12	131-4036	1	Lock Lever R-383-S
	P	S		13		1	Front Reinf. Stop Brkt.
	P	S		15		1	Top Retaining Z-Bar
	P	S		16		1	Retaining Angle
	P	S		20		1	Door Track 3" x 1/2" x 7'-7"
	P	S		21	131-4041	3	Track Brkt. R-386
	P	S		22	131-4042	3	Track Brkt. R-385
	P	S		23	1R-4546	1	Back Stop CM-215
	P	S		24		1	Top Z-Bar
	P	S		25		1	Rear Edge Guide Plate
	P	S			137-3564	1	Handhold Stile
	F	S		Fig.4	3R-4488	2	Side Handhold
	M	S		S-6	1R-4607	2	Handhold Brkt. 1/4" x 5" x 8-1/2"
	P	S			2R-4474	1	R-430 Spring Assembly

R40-30

Revised April 15, 1958
Revised July 18, 1958

FLOOR RACK

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	ITEM
	M	W		A	4R-4521	2	Special Slat 1-1/8" x 7-5/16" x 48-3/4"
	M	W		B	4R-4521	2	Special Slat 1-1/8" x 7-5/16" x 48-3/4"
	M	W		FF	4R-4521	2	Special Slat 1-1/8" x 7-5/16" x 48-3/4"
	M	W		GG	4R-4521	2	Special Slat 1-1/8" x 7-5/16" x 48-3/4"
	M	W		C	4R-4521	2	Special Slat 1-1/8" x 7-5/16" x 49-11/16"
	M	W		D	4R-4521	2	Special Slat 1-1/8" x 7-5/16" x 49-11/16"
	M	W		HH	4R-4521	2	Special Slat 1-1/8" x 7-5/16" x 49-11/16"
	M	W		JJ	4R-4521	2	Special Slat 1-1/8" x 7-5/16" x 49-11/16"
	M	W		E	4R-4521	10	Floor Rack Slat - End 1-1/8" x 3-5/8" x 50-5/16"
	M	W		F	4R-4521	10	Floor Rack Slat - End 1-1/8" x 3-5/8" x 50-5/16"
	M	W		G	4R-4521	7	Floor Rack Slat @ Hinge 1-1/8" x 3-5/8" x 48-1/16"
	M	W		H	4R-4521	7	Floor Rack Slat @ Hinge 1-1/8" x 3-5/8" x 48-1/16"
	M	W		J	4R-4521	7	Floor Rack Slat @ Hinge 1-1/8" x 3-5/8" x 48-1/16"
	M	W		K	4R-4521	7	Floor Rack Slat @ Hinge 1-1/8" x 3-5/8" x 48-1/16"
	M	W		L	4R-4521	7	Floor Rack Slat @ Handhold 1-1/8" x 3-5/8" x 49-13/16"
	M	W		M	4R-4521	7	Floor Rack Slat @ Handhold 1-1/8" x 3-5/8" x 49-13/16"
	M	W		N	4R-4521	18	Floor Rack Slat 1-1/8" x 3-5/8" x 50-5/16"
	M	W		O	4R-4521	18	Floor Rack Slat 1-1/8" x 3-5/8" x 50-5/16"
	M	W		P	4R-4521	25	Floor Rack Slat 1-1/8" x 3-5/8" x 50-5/16"
	M	W		Q	4R-4521	25	Floor Rack Slat 1-1/8" x 3-5/8" x 50-5/16"
	M	W		R	4R-4521	1	Special Slat - Gate Section 1-1/8" x 6-11/16" x 48-3/4"
	M	W		S	4R-4521	1	Special Slat - Gate Section 1-1/8" x 6-11/16" x 48-3/4"
	M	W		T	4R-4521	1	Special Slat - Gate Section 1-1/8" x 6-11/16" x 49-9/16"
	M	W		U	4R-4521	1	Special Slat - Gate Section 1-1/8" x 6-11/16" x 49-9/16"
	M	W		V	4R-4521	2	End Slat - Gate Section 1-1/8" x 3-5/8" x 50-5/16"
	M	W		W	4R-4521	2	End Slat - Gate Section 1-1/8" x 3-5/8" x 50-5/16"
	M	W		X	4R-4521	4	Slat - Gate Section 1-1/8" x 3-5/8" x 50-5/16"
	M	W		XX	4R-4521	1	Slat @ Gate Section Handhold 1-1/8" x 3-5/8" x 45-15/16"
	M	W		Y	4R-4521	4	Slat - Gate Section 1-1/8" x 3-5/8" x 50-5/16"
	M	W		YY	4R-4521	1	Slat @ Gate Section Handhold 1-1/8" x 3-5/8" x 45-15/16"
	M	W		Z	4R-4521	5	Slat - Gate Section 1-1/8" x 3-5/8" x 50-5/16"
	M	W		AA	4R-4521	5	Slat - Gate Section 1-1/8" x 3-5/8" x 50-5/16"
	M	W		BB	4R-4521	1	Special Slat - Gate Section 1-1/8" x 6-11/16" x 48-3/4"
	M	W		CC	4R-4521	1	Special Slat - Gate Section 1-1/8" x 6-11/16" x 48-3/4"
	M	W		DD	4R-4521	1	Special Slat - Gate Section 1-1/8" x 6-11/16" x 49-9/16"
	M	W		EE	4R-4521	1	Special Slat - Gate Section 1-1/8" x 6-11/16" x 49-9/16"
	F	S		1	4R-4614	2	Stringer @ Hinge 1/8" x 4" x 52"
	F	S		2	4R-4614	2	Stringer @ Hinge 1/8" x 4" x 52"
	F	A		3	4R-4615	4	Floor Rack Stringer 4" Aluminum I Beam 49-7/8"
	F	A		4	4R-4615	4	Floor Rack Stringer 4" Aluminum I Beam 47-13/16"

BILL OF MATERIAL FOR CARS IN CLASS R-10-30

Revised July 1, 1958

FLOOR RACK

CODE	SOURCE OF SUPPLY	MATERIAL	WEIGHT	PIECE NUMBERS	DRAWING	UNITS PER CAR	ITEM
	F	A		5	4R-4615	4	Floor Rack Stringer 4" Aluminum I Beam 45-11/16"
	F	A		6	4R-4615	4	Floor Rack Stringer 4" Aluminum I Beam 43-7/16"
	F	S		7	4R-4614	3	Stringer @ Hinge 1/8" x 4" x 49-1/8"
	F	S		8	4R-4614	3	Stringer @ Hinge 1/8" x 4" x 49-1/8"
	F	A		9	4R-4615	24	Floor Rack Stringer 4" Aluminum I Beam 48-15/16"
	F	S		10	4R-4614	1	Stringer at Hinge 1/8" x 4" x 51-3/8"
	F	S		11	4R-4614	1	Stringer at Hinge 1/8" x 4" x 51-3/8"
	F	S		12	4R-4614	1	Stringer @ Hinge 1/8" x 4" x 43-1/2"
	F	S		13	4R-4614	1	Stringer @ Hinge 1/8" x 4" x 43-1/2"
	F	A		14	4R-4615	2	Floor Rack Stringer 4" Aluminum I Beam 53-3/16"
	F	A		15	4R-4615	2	Floor Rack Stringer 4" Aluminum I Beam 55-3/8"
	F	A		16	4R-4615	2	Floor Rack Stringer 4" Aluminum I Beam 57-1/2"
	F	A		17	4R-4615	2	Floor Rack Stringer 4" Aluminum I Beam 59-3/4"
	F	A		18	4R-4615	2	Floor Rack Stringer 4" Aluminum I Beam 51-13/16"
	F	A		19	4R-4615	2	Floor Rack Stringer 4" Aluminum I Beam 37-1/16"
	F	A		20	4R-4615	2	Floor Rack Stringer 4" Aluminum I Beam 35-1/8"
	F	A		21	4R-4615	2	Floor Rack Stringer 4" Aluminum I Beam 33"
	F	A		22	4R-4615	2	Floor Rack Stringer 4" Aluminum I Beam 30-3/4"
	F	A		23	4R-4615	2	Floor Rack Stringer 4" Aluminum I Beam 29-5/8"
	F	A		24	4R-4615	2	Floor Rack Stringer 4" Aluminum I Beam 29-11/16"
	F	A		25	4R-4615	2	Floor Rack Stringer 4" Aluminum I Beam 31-11/16"
	F	A		26	4R-4615	2	Floor Rack Stringer 4" Aluminum I Beam 33-3/4"
	F	A		27	4R-4615	2	Floor Rack Stringer 4" Aluminum I Beam 36"
	F	A		28	4R-4615	2	Floor Rack Stringer 4" Aluminum I Beam 37-1/8"
	F	A		29	4R-4615	2	Floor Rack Stringer 4" Aluminum I Beam 45-5/16"
	F	A		30	4R-4615	2	Floor Rack Stringer 4" Aluminum I Beam 47-7/16"
	F	A		31	4R-4615	2	Floor Rack Stringer 4" Aluminum I Beam 49-11/16"
	F	S			2R-4617	28	Floor Rack Hinge
	F	G		F-13	2R-4525	4	Gate Section Hinge
	F	A		F-14	2R-4525	12	Gate Section Hinge (Alloy 6151-T6)
	F	S	2.25#		3R-4640	14	Floor Rack Holder Hook Plate
	F	G				28	#14 x 1" RD. HD. Galv. Wood Screws for Hook Plate
	F	G		34	2R-4629	1	Slat Reinforcement 5-1/2" x 1/8" x 29-9/16"
	F	G		32	2R-4629	1	Slat Reinforcement 5-1/2" x 1/8" x 38-3/4"
	F	G		35	2R-4629	1	Slat Reinforcement 5-1/2" x 1/8" x 29-9/16"
	F	G		33	2R-4629	1	Slat Reinforcement 5-1/2" x 1/8" x 38-3/4"
	F	W		ZZ	4R-4521	2	Handhold Filler 1-1/8" x 2-3/8" x 5"
						344	1-1/2" #14 Csk. Flat Head, Type Z, Cadmium Plated Screws
						1268	1-1/2" #14 Csk. Flat Head, Type Z, Stainless Steel (Type 305 18-8)

BILL OF MATERIAL FOR CARS IN CLASS R-40-30

Rev. August 7, 1958

PROTECTIVE COATINGS

P.F.E. SPEC. NO.	PER CAR QUANTITY	ITEM
409	17 Gal.	Asphalt Coating (Underframe, Outside Steel End, Sub Floor - Under Side)
415	65 Gal.	Asphalt Coating (Inside Steel Sheathing, B End, Bulkhead Struct., Inside Steel Posts
419	5 Gal.	Primer Roof Coating
402	1-3/4 Gal.	Aluminum Paint - (Roof)
404	3 Gal.	Black Enamel (Trucks)(Brake Rigging)
423	1/4 Gal.	Black Stencil Paint
410	17-1/2 Gal.	Floor Coating
400	1/2 Gal.	Chromate Primer (Bhd. Lining, Bhd. Struct. Members)
	1-3/4 Gal.	Rust-Oleum (Metal Sub-Floor)
700	6 Gal.	Cement - Rubber (Masonite Floor)
800	2 Gal.	Cement - Heavy (Seam Cap Ends, Bolster Cover Plate & Diaphragm)
424	1/4 Gal.	Lap Joint Paint (Metal to Metal Contact)
416	1/2 Pt.	Aluminum Paint - Asphalt Base (End Stenciling)
426	1-1/2 Gal.	Gray (Mach. Compartment Walls & Ceiling)
407	2-3/4 Gal.	Orange Enamel - Undercoat (Sides)
408	2-3/4 Gal.	Orange Enamel (Finish - Sides)
	1/2 Lb.	Putty - Natural
	2-1/4 Lbs.	Putty - Water (Dry State)
	1/2 Gal.	Perma-Dri (Non-Skid) Mach. Compartment Floor
414	16 Gal.	Thinner - Standard
405	6 Gal.	Varnish - Interior Car (2 Coats) Lining & Bhd. Pad & Floor Rack Slat
406	1/2 Gal.	Wood Primer (Inside of A End Lining)
422	1 Pt.	White Stencil Paint
401	3/4 Gal.	Zinc Neutralizer & Conditioner (Roof Sheets)
425	16 Gal.	Wood Preservative (Coping Board, Decking, Decking Nailers,
	1/2 Gal.	Quick Drying Cement-EC-524 (Door Gaskets)
	24 Gal.	SMR 512 Coating (Sub Floor - Top, and Top of Floor Insulation)
	2 Gal.	Cement, EC-1128 or Equal (For Use with Sealing Tapes)
	2-1/2 Gal.	Sealer, Plastic - Cocoon #1000 or Equal (Metal Posts)
	1/4 Gal.	Cleaning Solvent for Plastic Sealer
802	3/5 Gal.	Metal Seam Caulking Compound "Prestite"

R-40-30

Revised April 15, 1958

NAIL LIST

Weight Per Car	Size	Gauge	Length	Location
1#	6d	13	1-7/8"	Bolt Head Locks
4#	6dgalv.		2"(Common Nail)	Masonite to Decking
30#	8d	11-1/2	2-3/8"	Sub-Lining Nailers to Belts Lining Nailers to Sub-Lining Nails T&G Lining to Nailers
1#	10d	11	2-7/8"	Bulkhead Pad "B" End
7#	12d	10	3-1/8"	Ceiling Nailers to Carline Lining Nailers to Belts Door Rails to Stiles
28#	20d	7	3-3/4"	Decking to Stringers

R-40-30

Weight Per Car	Size	Type	Length	Location
4#	5/32"	Ring Shank - Galv.	1-3/4"	Floor Pans to Decking & Framing
3#	#11	Barbed Roofing Galv.	1"	Flashing to Coping Board
2#		Staples #1018 CXR Galv.Duo-Fast		Door Seal
1-1/2#	#10	Spiral Shank Galv.(7/16" Head)	-1-3/4"	Galv. Lining to Bulkhead Sub Lining at Blower

No.Per Car				
5105	1-1/4"	Chisel Point Divergent Staples (Spot Nail No. HD-10 DCR		Masonite to Decking 1795 Masonite Sub Lining 2084 Masonite Ceiling 1226

NOTE: All nails to be cement coated sinkers unless otherwise specified.

Revised August 26, 1958

END WELDED STUD LIST

Per Car	Size	Nut	Washer	Location
3	#10 - 24 x 1-1/2" (AW) PD	Flex Lock	-	Air Switch
12	5/16" - 18 x 3/4" (AW) PD	#4	-	Thermostat Sensing Elements Thermostat Securement Thermometer to Steel Side
6	3/8" - 16 x 1" (AW) PD	#4	-	Battery Cable Clamp to Steel End Power Cable Clips
20	1/2" - 13 x 1 (AW) PD	#4	-	Filter Panel to Car
12	1/2" - 13 x 1-1/2" (AW) PD	#4	-	DRC Panel, Control Panel
40	1/2" - 13 x 5-1/2" (AW) FB	#4	9/16"	Floor Stringers to Sub Floor
33	5/8" - 11 x 2-1/4" (AW) FB	#4	11/16"	Spacer Blocks to Side Post
20	5/8" - 11 x 4" (AW) FB	#4	11/16"	"B" End Bolting Strap
40	5/8" - 11 x 4-1/4" (AW) FB	#4	11/16"	Coping Board to Side Post
2	1/2" -13 x 3-1/2" (AW) FB	#4	9/16"	Top Belt to Clips AL &AR
	NOTE: Above studs are for 500 car sets.			
20	1/2" - 13 x 4" FB	#4	9/16"	Bulkhead Posts (25 Equipco)
5	1/2" - 13 x 5" FB	#4	9/16"	Bulkhead Posts (cars only)
47	1/2" - 13 x 4" FB	#4	9/16"	Bulkhead Posts (175 Carrier)
10	1/2" - 13 x 4-7/8" FB	#4	9/16"	Bulkhead Posts (cars only)
53	1/2" - 13 x 2-7/8" (AW) FB	#4	9/16"	Bulkhead Posts (300 Trane)
10	1/2" - 13 x 4-5/8" (AW) FB	#4	9/16"	Bulkhead Posts (cars only)

NOTE:
#4 Nut = MF-2 Way or Equal

Revised April 15, 1958
Revised July 18, 1958

R-40-30

R-40-30 RIVET LIST

PER CAR	SIZE	GRIP	LOCATION
			UNDERFRAME
2	3/8" x 2-1/4"	1-1/2"	Retainer Key
4	1/2" x 2-1/4"	1"	Center Tread to Door Sill Step
6	5/8" x 2"	5/8"	Door Hook to Side Sill Channel
4	5/8" x 2"	5/8"	Uncoupling Rod Bracket to Car
4	5/8" x 2-1/4"	7/8"	Handhold to End Sill
14	5/8" x 2-1/4"	13/16"	Sill Step to Underframe
6	5/8" x 2-1/4"	3/4"	Mach. Compartment Door Track to Bracket
2	5/8" x 2-1/4"	7/8"	Slack Adjuster to Bracket
26	5/8" x 2-5/8" CSK.	1-3/16"	Door Track to Filler
1	5/8" x 3-1/4"	2-1/8"	Brake Chain to Bell Crank
12	3/4" x 3"	1-3/8"	Draft Gear Carrier to Center Sill
8	3/4" x 3-1/2"		Side Bearing to Truck Bolster
			STEEL SIDES & ENDS
8	3/16" x 1/2" Southco		Defect Card & Log Book Holder to Car
70	3/8" x 1-1/4"	3/8"	Louvered Panel to Side Plate & Side Post
18	3/8" x 1-1/2"	21/32"	End to AL Corner Post
19	3/8" x 1-1/2"	21/32"	Louvered Panel to Steel End - AL
19	3/8" x 1-3/4"	25/32"	Louvered Panel to Steel End - AR
8	1/2" x 1-1/2"	9/16"	Hand Brake Support to End
18	1/2" x 1-1/2"	1/2"	Louvered Panel to Header
12	1/2" x 1-1/2"	1/2"	Door Bumper to Side of Car
4	1/2" x 1-1/2"	9/16"	Running Board Angle to Brace
4	1/2" x 1-1/2"	13/32"	Handhold Bracket to "A" End
66	1/2" x 1-7/8"	5/8"	Steel End to End Sill
2	1/2" x 2-1/4"	1-1/16"	Louvered Panel to Side Plate at Corner
30	5/8" x 1-7/8"	1/2"	Corner Post to "B" End
2	5/8" x 2"	5/8"	Louvered Panel to Side Plate at Post
8	5/8" x 2"	9/16"	Running Board Brace & Brake Step Bracket to End
20	5/8" x 2"	11/16"	Corner Cap
10	3/4" x 2-1/8"	7/16"	Bulkhead Header to Side Plate
60	1/2" x 1-3/4"	13/16"	Top Retainer Over Door
28	1/2" x 1-3/8"	3/8"	Top Retainer Beyond Door
12	5/8" x 1-7/8"	7/16"	Brackets to Ladder Stiles

Revised
July 8, 1958

R-40-30 RIVET LIST

PER CAR	SIZE	GRIP	LOCATION
			ROOF
40	3/8" x 1-1/4"	1/4"	Running Board to Saddle
280	3/8" x 1-1/4"	3/8"	Roof Sheet to Side Plate
64	3/8" x 1-1/4"	5/16"	Roof Sheet to Top End Section
12	3/8" x 1-3/8"	7/16"	End Running Board Saddle to Roof
242	3/8" x 1-3/8"	1/2"	Seam Cap to Roof Sheet
4	3/8" x 1-3/8"	1/2"	Latitudinal Board to Bracket
44	3/8" x 1-5/8"	5/8"	Running Board Saddle to Seam Cap
44	3/8" x 1-5/8"	11/16"	Seam Cap to Side Plate
4	**1/2" x 1-7/8"**	3/4"	Latitudinal Board Bracket to Side Plate

NOTE: All Roof Rivets are to be Cold Annealed

			MISCELLANEOUS
28	1/4" x **5/8"** F.H. Tinner		Heater Well & Drain Spout

NOTE: All Rivets are Button Head unless otherwise marked.

Rev. June 11, 1958

BOLT LIST

R-40-30

PER CAR	SIZE	TYPE	NUT	WASHER	LOCK	LOCATION
						UNDERFRAME
2	3/8" x 1-1/2"	Mach.	#4	-	-	Retainer Pipe Clamp
4	1/2" x 1-1/2"	Mach.	#4	-	-	Fuel Pipe Clamp to Bracket
6	5/8" x 2"	Mach.	#4	-	-	Cylinder to Support
1	5/8" x 6"	Mach.	#4	S.A.E.	-	Branch Pipe Tee to Support
4	5/8" x 12"	Mach.	#4	11/16"	-	AB Valve to Support
4	3/4" x 1-3/4"	Mach.	#4	Spring	-	Conn. Tank to Center Sill - H Washers
3	1" x 7"	Mach.	#4	-	-	Reservoir to Support
						STEEL SIDES & ENDS
4	3/8" x 1-1/4"	S.S.C.	#2	-	-	Brake Step to Bracket
2	3/8" x 1-1/2"	C.C.	#4	-	-	Retainer Valve to Bracket
1	3/8" x 1-1/8"	C.C.	#4	-	-	Retainer Pipe Clamp on "B" End
4	5/8" x 1-1/4"	Flat Neck 1/4"	#4	-	-	End Ladder to "B" End
4	5/8" x 1-1/4"	Flat Neck 1/4"	#4	-	-	Center Ladder Bracket BL
2	5/8" x 1-1/2"	Flat Neck 1/4"	#4	-	-	End Handhold to "B" End
4	5/8" x 1-3/4"	Flat Neck 1/2"	#4	-	-	Door Handhold to Car
2	5/8" x 1-3/4"	Flat Neck 1/2"	#4	-	-	Side Handhold to Sheathing - BR
2	5/8" x 2"	Flat Neck 3/4"	#4	-	-	Handhold at BR Corner
4	5/8" x 1-1/4"	Mach.	#4	-	-	Ladder to "A" End
2	5/8" x 1-1/4"	Mach.	#4	-	-	AR Ladder to Louvered Panel
2	5/8" x 1-1/2"	Mach.	#4	-	-	AR Ladder to Panel at Top
8	5/8" x 1-1/2"	Mach.	#4	-	-	Ladder Brkt. to Underframe
4	5/8" x 1-1/2"	Mach.	#4	-	-	AR Handhold Stile to Car
4	5/8" x 1-3/4"	Mach.	#4	-	-	AR Handhold Brkt. to Car
4	5/8" x 1-3/4"	Mach.	#4	-	-	Hand Brake to Support
4	5/8" x 1-7/8"	Flt. Nk. 3/4"	#4	-	-	Bottom Door Keeper to Car
4	5/8" x 1-7/8"	Flt. Nk. 3/4"	#4	-	-	Top Door Keeper to Car
6	3/8" x 3/4"	Mach.	#4	-	-	Cover Plate to "A" End
						FRAMING
10	3/16" x 1-1/4"	F.H. Stove - G	Std.	1/4"	-	Chest Handle to Bulkhead Pad
3	3/8" x 2"	C.C. - G	Std.	7/16"	-	Ceiling Clip to Bulkhead Pad
9	3/8" x 2-1/2"	C.C. - G	Std.	-	-	Ceiling Nailer Connection
1	3/8" x 6"	C.C.	Std.	7/16"	-	Split Bolt - End Belt (475 cars only)
24	1/2" x 3" #3	Plow	Std.	9/16"	-	Carline Bracket to Carline
34	1/2" x 4" #3	Plow	Std.	9/16"	-	Header & Door Post to Car
36	1/2" x 2-1/2"	C.C. - G	#2	-	-	Ceiling Nailer to Hanger
28	3/8" x 3-3/4"	C.C.	#4	-	#13	Lading Strap Anchor Post to Belt Rail

BOLT LIST

R-40-30

PER CAR	SIZE	TYPE	NUT	WASHER	LOCK	LOCATION
24	1/2" x 2-5/8"	C.C.	Std.	-	#9	Carline Bracket to Top Belt Rail
12	1/2" x 2-3/4"	C.C.	#4	9/16"	-	Door Post to Clip
126	1/2" x 3-5/8"	C.C.	#4	9/16"	#9	Belt Rail to Spacer Block
84	1/2" x 3-3/4"	C.C. - G	#2	-	28-#20	Hinge Butt to Coping Board
40	1/2" x 4-1/4"	C.C.	#4	9/16"	#9	Vertical End Post to Spacer Block
5	1/2" x 6"	C.C.	Std.	9/16"		Carline to Vertical End Post
36	1/2" x 6"	C.C. Galv.	#4	-	#9	Ceiling Hanger to Carlines
						BULKHEAD FRAMING
26	1/2" x 4-1/8"	C.C. - G	#4	-	#9	B.H. Reinf. & Blower to Bulkhead
16	5/8" x 4-1/2"	C.C. - G	#4	-	#15	Evaporator to Bulkhead (475 cars)
36	3/8" x 1-1/8" - 5/32"	Collar G "T"		-	-	Bulkhead Pad to Equipco Cooling Coil
27	1/2" x 4-1/8"	C.C. - G	#4	-	#9	Evaporator to Framing
6	5/8" x 5"	C.C. - G	#4	-	#19	Evaporator to Side Belts Rails
2	5/8" x 5-1/2"	C.C. - G	#4	-	#15	Evaporator to Coping Board
						ROOF
4	3/8" x 1-1/4"	C.C.	#2	-	-	Running Board to Seam Cap
6	5/8" x 2"	Mach.	#4	-	-	Handhold to Running Board (Morton)
						SIDE DOOR
32	3/8" x 6"	C.C.	Std.	-	#16	Door Stile & Top and Bottom Rail
48	3/8" x 2-1/4"	C.C.	Std.	-	#16	Aux. Door Stile & Top and Bottom Aux. Door (Rail
24	3/8" x 5"	C.C.	Std.	-	#16	Aux. Door Stile to Door Stile
16	3/8" x 4-3/4"	C.C.	Std.	-	#16	Aux. Door Rail to Top & Bottom Rail
8	1/2" x 3"	Flt.Nk. 1/4"	#4	9/16"	-	Intermediate Post
64	1/2" x 1-1/4"	Flt.Nk. 1/4"	#4	-	-	Rod Bearing to Door Sheet
16	1/2" x 1"	Flt.Nk. 1/4"	#4	-	-	Operating Rod Guide to Door Sheet
4	1/2" x 1"	Flt.Nk. 1/4"	#4	-	-	Door Lever Holder to Door Sheet
4	1/2" x 1-3/4"	Flt.Nk. 1/4"	#4	9/16"	-	Intermediate Post
4	1/2" x 1"	Flt.NK. 1/4"	#4	-	-	Side Door Handle
220						
110						

BOLT LIST

PER CAR	SIZE	TYPE	NUT	WASHER	LOCK	LOCATION
						MACHINE COMPARTMENT
9	3/8" x 1"	Mach.	#4	-	-	Exhaust Pipe to Roof, Ground Strap
16	1/2" x 1-3/4"	Mach.	#4	-	-	Condenser Hold Down (Carrier)
4	3/4" x 3-3/4"	Mach.	#4	-	-	Condenser Hold Down (Trane)
6	1" x 4-1/2"	Mach.	Elastic Stop-		-	Engine Hold Down (Witte)
2	5/8" x 1-1/2"	Mach.	#4	-	-	Compartment Door Stop
						EXTRA NUTS & WASHERS
36	3/8"	"T" Galv.				Bulkhead Pad (475 cars)
2	3/8"	C.L.				Exhaust Pipe "U" Bolt
4	5/8"	C.L.				Angle Cock "U" Bolt
						FLOOR RACK
36	1/4" x 1-5/8"	(CSK) G	Std.	-	-	Floor Rack Slat Reinforcement
8	5/8" x 1-1/2"	Mach. G	#4	-	-	Gate Hinge Pin
16	5/8"	G	#4	11/16"	-	Gate Hinge
28	1/2" x 2-3/4"	Mach. G	#4	-	-	Floor Rack Hinge
						DRAIN PAN
2	5/16" x 3-1/2"	Mach. G	#4	3/8"		Wind Guard
4	1/2" x 1-1/4"	Mach.	#4	9/16"		Wind Guard Bracket

CODE:

G - Galvanized
#4 - MF-2 Way or GN Centerlock
Flt.Nk.- Flat Neck
S.S.C.- Short Shoulder Carriage
"T" - KSM "T" 3/8" -16 Slotted Galv.

NOTE:

All machine bolts are to have Hexagon heads.
All nuts are to be finished Hexagon

August 8, 1958
Rev. August 20, 1958

R-40-30

P.F.E. SCHEDULE NO. P-1-R

REFLECTIVE INSULATION PAPER

CARS CLASS R-40-30

Reflective insulation included in this schedule is covered by Union Pacific Specification No. 201. Must be fire retardant.

Grade No. 1 in Specification No. 201 must be used.

Each car requires one outside course of reflective insulation paper applied next to steel roof, with reflective surface facing outside of car and of size as follows:

SIZE	LOCATION	NO. PCS. PER CAR	TOTAL SQ. FT.
112" x 466"	Roof	1	362.44

San Francisco, Calif.
October 1, 1957

REFLECTIVE PAPER

SCHEDULE NO. P-1-R

R-40-30

PFE SCHEDULE NO. VB-2-W

VAPOR BARRIER - WALLS

CARS CLASS R-40-30

The Vapor Barrier included in this schedule is covered by P.F.E. Specification number 202.

No. Pcs. Per Car	Thickness	Size	Location	Matl. Spec.	Total Sq. Ft.
1	.004	540"x132"	Door post to door post (B-end)	202	495.00
2	.004	171"x132"	Door post to B.H. (A-end)	202	314.00
2	.004	68"x101"	Side Door	202	95.38
			Total Sq. Ft.		904.38

San Francisco, California.
October 22, 1957
Rev. April 15, 1958

VAPOR BARRIER - WALLS
PFE SCHEDULE NO. VB-2-W

P. F. E. Schedule No. F-65

FLOOR INSULATION

CARS CLASS R-40-30

Insulation included in this schedule are covered by P.F.E.

Specifications as follows:

	Spec.
Rigid Foamed Plastic	108
Foamed Rubber Hardboard	107
Foamed in Place	

No. Pcs. Per Car	Thick-ness	Size	Locations	Matl. Spec.	Total Sq.Ft.
			RIGID FOAMED (450 cars)		
16	2"	23-1/2" x 9'-3-3/8"	Between Stringers-Bottom	108	290.81
4	3"	17-3/4" x 23-1/2"	Under Floor Pan	108	11.44
16	4"	23-1/2" x 8'-10-7/8"	Between Stringers - Top	108	279.06
			FOAMED RUBBER HARDBOARD (450 cars)		
4	1"	13-1/2" x 23-1/2"	Under Floor Pan	107	8.81

FOAMED IN PLACE	Cu.Ft.
Between Side Sill Angle and Stringer (500 cars)	21.00
Between Stringers (50 cars)	145.08

San Francisco, California
Rev. October 1, 1957
February 28, 1958
November 28, 1958

FLOOR INSULATION
SCHEDULE NO. F-65

P.F.E. SCHEDULE NO. R-67

ROOF INSULATION

CARS CLASS R-40-30

Insulations included in this schedule are covered by P.F.E.

Specifications as follows:

	Spec.
Mineral Wool	105
Laminated Panel	110
Glass Wool	111

No. Pcs. Per Car	Thickness	Size	Location	Matl. Spec.	Total Sq.Ft.
		PANEL INSULATION			
48	2-1/2"	24" x 33-1/2"	Between Carlines	110	268.00
		BLANKET INSULATION			
12	2"	33-1/2" x 102"	Between Carlines	105	288.00
2	3"	8" x 456"	@ Eaves	111	50.66
1	4"	104" x 456"	Upper Coarses	111	329.33

San Francisco, California.
Rev. October 1, 1957
Rev. February 6, 1958.

ROOF INSULATION
SCHEDULE NO.R-67

P.F.E. SCHEDULE NO. W-68
WALL INSULATION - BLANKET
CARS CLASS R-40-30

Insulation included in this schedule is covered by Specification as follows:

Glass Wool 111
Textile Glass Fiber 102

No. Pcs. Per Car	Thickness	Size	Location	Matl. Spec.	Total Sq. Ft.
			Blanket Insulation		
1	1"	123" x 132"	"A" End	102	112.75
2	3"	117" x 212"	Side-Door to "B" End	102	344.50
2	3"	117" x 165"	Side-Door to "A" End	102	268.13
1	3"	117" x 132"	"B" End	102	106.70
				Total	719.33
4	3"	16-5/8" x 68-1/4"	Door-Inter.	111	31.52
4	3"	25" x 68-1/4"	Door-Top	111	47.40
2	3"	17" x 68-1/4"	Door-Bottom	111	16.12
2	3"	6" x 84"	Over Door	111	7.00
				Total	101.04
2	4"	24½" x 126"	Bulkhead	102	42.54
2	4"	27" x 126"	Bulkhead	102	46.87
				Total	89.41

WALL INSULATION

SCHEDULE NO. W-68

San Francisco, California
March 3, 1958

P.F.E. SCHEDULE NO. W-68-A
WALL INSULATION
CARS CLASS R-40-30
WITH CARRIER UNIT

Insulation included in this schedule is covered by PFE Specification 110 - Laminated Panel.

NOTE: First dimension indicates direction of corrugation

No. Pcs. Per Car	Thickness	Size	Location	Total Sq. Ft.
12	3"	24" x 19"	"B" End	38.00
4	3"	28" x 19"	"B" End - Upper	14.77
28	3"	24" x 48"	Between Belt Rails	224.00
28	3"	42-1/4" x 24"	Between Belt Rails - Upper	197.16
4	3"	42-1/4" x 15"	Between Belt Rails	17.60
8	3"	24" x 15"	Between Belt Rails	20.00
12	3"	33-5/8" x 34-1/2"	Door	96.67
2	3"	15-3/4" x 20"	"A" End Bulkhead	4.38
2	3"	15-3/4" x 21-3/8"	"A" End Bulkhead	4.68
4	3"	7" x 22-1/4"	"A" End Bulkhead	4.33
2	3"	23" x 20"	"A" End Bulkhead	6.39
2	3"	23" x 21-3/8"	"A" End Bulkhead	6.83
2	3"	34-3/4" x 20"	"A" End Bulkhead	9.65
2	3"	34-3/4" x 21-3/8"	"A" End Bulkhead	10.32
3	3"	7" x 35"	"A" End Bulkhead	5.10
			Total	659.85

WALL INSULATION

SCHEDULE NO. W-68-A

San Francisco, California
March 3, 1958

P.F.E. SCHEDULE NO. W-68-C
WALL INSULATION
CARS CLASS R-40-30
WITH "EQUIPCO" UNIT

Insulation included in this schedule is covered by PFE Specification 110 - Laminated Panel.

NOTE: First dimension indicates direction of corrugation

No. Pcs. Per Car	Thickness	Size	Location	Total Sq. Ft.
12	3"	24" x 19"	"B" End	38.00
4	3"	28" x 19"	"B" End - Upper	14.77
28	3"	24" x 48"	Between Belt Rails	224.00
28	3"	42-1/4" x 24"	Between Belt Rails - Upper	197.16
4	3"	42-1/4" x 15"	Between Belt Rails	17.60
8	3"	24" x 15"	Between Belt Rails	20.00
12	3"	33-5/8" x 34-1/2"	Door	96.67
4	3"	24" x 20"	Bulkhead	14.70
8	3"	48" x 20"	Bulkhead	58.70
			Total	681.60

WALL INSULATION

SCHEDULE NO. W-68-C

San Francisco, California
March 6, 1958

P.F.E. SCHEDULE NO. W-68-B
WALL INSULATION
CARS CLASS R-40-30
WITH TRANE UNIT

Insulation included in this schedule is covered by PFE Specification 110 - Laminated Panel.

NOTE: First dimension indicates direction of corrugation

No. Pcs. Per Car	Thickness	Size	Location	Total Sq. Ft.
12	3"	24" x 19"	"B" End	38.00
4	3"	28" x 19"	"B" End - Upper	14.77
28	3"	24" x 48"	Between Belt Rails	224.00
28	3"	42-1/4" x 24"	Between Belt Rails - Upper	197.16
4	3"	42-1/4" x 15"	Between Belt Rails	17.60
8	3"	24" x 15"	Between Belt Rails	20.00
12	3"	33-5/8" x 34-1/2"	Door	96.67
2	3"	15-3/4" x 20"	"A" End Bulkhead	4.38
2	3"	15-3/4" x 21-3/8"	"A" End Bulkhead	6.39
4	3"	7" x 22-1/4"	"A" End Bulkhead	4.33
2	3"	18-1/2" x 20"	"A" End Bulkhead	5.14
2	3"	18-1/2" x 21-3/8"	"A" End Bulkhead	5.59
2	3"	13-1/2" x 20"	"A" End Bulkhead	3.75
2	3"	13-1/2" x 21-3/8"	"A" End Bulkhead	4.08
2	3"	23-3/4" x 20"	"A" End Bulkhead	6.60
2	3"	23-3/4" x 21-3/8"	"A" End Bulkhead	7.17
3	3"	7" x 35"	"A" End Bulkhead	5.10
			Total	660.70

WALL INSULATION

SCHEDULE NO. W-68-B

San Francisco, California
March 6, 1958

P.F.E. SCHEDULE NO. P-3-T

PRESSED WOOD

FOR CARS CLASS R-40-30

Pressed wood included in this schedule is covered by Pacific Fruit Express Company Specification No. 300.

Pc. No.	Size	Grade	Item & Location	Per Car	Total Sq.Ft.
F-11	3/16" x 48" x 102"	Temp.	Floor	8	272.00
F-12	3/16" x 31" x 102"	Temp.	Floor	1	21.95
			Total		293.95
C-10	5/16" x 5-3/4" x 103-1/4"	Std.	Sub. Ceiling	1	4.12
C-	5/16" x 36" x 103-1/4"	Std.	Sub. Ceiling	12	309.75
L-14	5/16" x 48" x 110-1/2"	Std.	Sub. Lining B-End	1	36.83
L-15	5/16" x 27-3/16" x 110-1/2"	Std.	Sub. Lining B-End	2	38.32
L-17	5/16" x 48" x 104-1/4"	Std.	Sub. Lining - Side	14	484.93
L-19	5/16" x 12-1/2" x 104-1/4"	Std.	Sub. Lining - Side	2	18.09
L-18	5/16" x 13-3/16" x 104-1/4"	Std.	Sub. Lining - Side	2	18.96
L-16	5/16" x 35-7/8" x 104-3/8"	Std.	Sub. Lining - Door	4	103.90
			Total		1,014.86

San Francisco, California
March 10, 1958
Rev. April 15,1958

PRESSED WOOD
SCHEDULE NO. P-3-S

P.F.E. SCHEDULE NO. PW-1-W
PLYWOOD
FOR CARS CLASS R-40-30 CARRIER

Each car requires plywood lining insulation spacer blocks of sizes as follows:

Pc. No.	Size	Item & Location	Per Car	Total Sq.Ft.
L-35	5/16" x 48" x 74"	Sub-Lining-A End	1	24.67
L-34	5/16" x 27-1/4" x 74"	Sub-Lining-A End	1	14.00
L-36	5/16" x 27-1/4" x 74"	Sub-Lining-A End	1	14.00
L-38	5/16" x 9-5/8" x 102-1/2"	Sub-Lining-A End	1	6.85
L-37	5/16" x 5-5/8" x 44-3/8"	Sub-Lining-A End	1	2.01
L-39	5/16" x 23" x 29-1/16"	Sub-Lining-A End	1	4.13
L-40	5/16" x 23" x 29-1/16"	Sub-Lining-A End	1	4.13
		Total		69.79
W-23	*5/8 x 3" x 7-3/4"	Spacer Block-Coping Board	44	7.10
W-28	*3/4" x 4" x 6"	Spacer Block-B End	20	6.67
D-7	*3/4" x 4" x 4"	Spacer Block-Door	16	1.77
B-57	*3/4" x 5" x 9"	Spacer Block-A End	4	1.24
B-58	*3/4" x 3-5/8" x 9"	Spacer Block-A End	2	.46
B-59	*3/4" x 3-5/8" x 9"	Spacer Block-A End	2	.46
B-60	*3/4" x 5" x 5-5/8"	Spacer Block-A End	2	.46
		Total		11.06
L-3	1" x 38-3/4" x 98-3/4"	Lining-A End	1	28.57
L-2	1" x 36" x 98-3/4"	Lining-A End	1	24.69
L-1	1" x 32-3/16" x 98-3/4"	Lining-A End	1	22.76
	1" x 48" x 98-3/4"	Lining-B End	2	65.84
W-24	*1" x 4" x 4-3/4"	Spacer Block-Belt Rail	20	2.64
W-25	*1" x 4" x 7-1/2"	Spacer Block-Belt Rail	44	11.25
W-26	*1" x 4" x 4"	Spacer Block-Top Rail	2	.22
W-27	*1" x 4" x 6"	Spacer Block-B End	20	3.33
W-28	*1" x 4" x 6"	Spacer Block-B End	20	3.33
B-50	*1" x 5" x 12"	Spacer Block-A End	3	1.25
B-51	*1" x 3-5/8" x 12"	Spacer Block-A End	1	.30
B-52	*1" x 3-5/8" x 4"	Spacer Block-A End	1	.10
B-53	*1" x 5" x 9"	Spacer Block-A End	3	.94
B-54	*1" x 3-5/8" x 9"	Spacer Block-A End	2	.45
B-55	*1" x 5" x 11-3/4"	Spacer Block-A End	3	1.22
B-56	*1" x 3-5/8" x 11-3/4"	Spacer Block-A End	2	.59
B-57	*1" x 5" x 9"	Spacer Block-A End	4	1.25
B-58	*1" x 3-5/8" x 9"	Spacer Block-A End	2	.45
B-59	*1" x 3-5/8" x 9"	Spacer Block-A End	2	.45
B-60	*1" x 5" x 5-5/8"	Spacer Block-A End	2	.39
		Total		173.02

NOTE: All 1" thick plywood lining to be A-C ext. Grade. Spacer Blocks to be C-C ext. Grade. All "A" Grade surfaces are to be sanded. All Plywood to conform with U.P. Spec. CS-107. Size of insulation spacer blocks may be reduced by amount required for saw cuts in order to cut blocks from standard 48" x 96" panels without waste.

P.F.E. SCHEDULE NO. PW-1-W
PLYWOOD
FOR CARS CLASS R-40-30 EQUIPCO

Each car requires plywood lining insulation spacer blocks of sizes as follows:

Pc. No.	Size	Item & Location	Per Car	Total Sq.Ft.
L-30	5/16" x 48" x 94"	Sub-Lining - A End	1	31.33
L-31	5/16" x 27-1/4" x 94"	Sub-Lining - A End	1	17.79
L-29	5/16" x 27-1/4" x 94"	Sub-Lining - A End	1	17.79
L-32	5/16" x 29-3/8" x 17-3/16"	Sub-Lining - A End	1	3.50
L-33	5/16" x 29-3/8" x 17-3/16"	Sub-Lining - A End	1	3.50
			Total	73.91
W-23	*5/8" x 3" x 7-3/4"	Spacer Block - Coping Board	44	7.10
W-28	*3/4" x 4" x 6"	Spacer Block - B End	20	6.67
D-7	*3/4" x 4" x 4"	Spacer Block - Door	16	1.77
			Total	8.44
L-10	1" x 48" x 98-3/4"	Lining - A End	1	32.92
L-9	1" x 36" x 98-3/4"	Lining - A End	1	24.69
L-8	1" x 21-1/2 x 98-3/4"	Lining - A End	1	14.74
	1" x 48" x 98-3/4"	Lining - B End	2	65.84
W-24	*1" x 4" x 4-3/4"	Spacer Block - Belt Rail	20	2.64
W-25	*1" x 4" x 7-1/2"	Spacer Block - Belt Rail	44	11.25
W-26	*1" x 4" x 4"	Spacer Block - Top Rail	2	.22
W-27	*1" x 4" x 6"	Spacer Block - B End	20	3.33
W-28	*1" x 4" x 6"	Spacer Block - B End	20	3.33
B-71	*1" x 4" x 4"	Spacer Block - A End	9	1.00
B-72	*1" x 2-5/8" x 4"	Spacer Block - A End	6	.61
B-73	*1" x 4" x 4"	Spacer Block - A End	2	.22
B-74	*1" x 6" x 8"	Spacer Block - A End	3	.99
B-75	*1" x 4" x 6"	Spacer Block - A End	2	.33
			Total	162.11

NOTE: All 1" thick plywood lining to be A-C ext. Grade. Spacer Blocks to be C-C ext. Grade. All "A" Grade surfaces are to be sanded. All Plywood to conform with U.P. Spec. CS-107. Size of insulation spacer blocks may be reduced by amount required for saw cuts in order to cut blocks from standard 48" x 96" panels without waste.

For details of fabrication see P.F.E. Drwgs. Nos.
All spacer blocks over 1" thick may be made by combining 2 separate blocks.
* All items marked * are to be cut to size and/or machined by PFE Co.
All other items are to be furnished as shown on drawing.
All 5/16" plywood to be BC Grade.

San Francisco, California.
March 27, 1958

P.F.E. SCHEDULE NO. PW-1-W
PLYWOOD
FOR CARS CLASS R-40-30 TRANE

Each car requires plywood lining insulation spacer blocks of sizes as follows:

Pc. No.	Size	Item & Location	Per Car	Total Sq.Ft.
L-42	5/16" x 48" x 74"	Sub-Lining - A End	1	24.67
L-43	5/16" x 27-1/4" x 74"	Sub-Lining - A End	1	14.00
L-41	5/16" x 27-1/4" x 74"	Sub-Lining - A End	1	14.00
L-44	5/16" x 9-3/8" x 102-1/2"	Sub-Lining - A End	1	6.58
L-45	5/16" x 5-5/8" x 44-3/8"	Sub-Lining - A End	1	2.01
L-46	5/16" x 23" x 29-1/16"	Sub-Lining - A End	1	4.48
L-46	5/16" x 23" x 29-1/16"	Sub-Lining - A End	1	4.48
			Total	70.22
W-23	*5/8" x 3" x 7-3/4"	Spacer Block - Coping Board	44	7.10
				6.77
W-28	*3/4" x 4" x 6"	Spacer Block - B End	20	6.67
D-7	*3/4" x 4" x 4"	Spacer Block - Door	16	1.77
B-57	*3/4" x 5" x 9"	Spacer Block - A End	4	1.24
B-58	*3/4" x 3-5/8" x 9"	Spacer Block - A End	2	.46
B-59	*3/4" x 3-5/8" x 9"	Spacer Block - A End	2	.46
B-60	*3/4" x 5" x 5-5/8"	Spacer Block - A End	2	.46
			Total	11.06
L-4,5	1" x 23-7/8" x 98-3/4"	Lining - A End	2	32.74
L-6	1" x 36" x 98-3/4"	Lining - A End	1	24.69
L-7	1" x 23-13/16" x 98-3/4"	Lining - A End	1	16.33
	1" x 48" x 98-3/4"	Lining - B End	2	65.84
W-24	*1" x 4" x 4-3/4"	Spacer Block - Belt Rail	20	2.64
W-25	*1" x 4" x 7-1/2"	Spacer Block - Belt Rail	44	11.25
W-26	*1" x 4" x 4"	Spacer Block - Top Rail	2	.22
W-27	*1" x 4" x 6"	Spacer Block - B End	20	3.33
W-28	*1" x 4" x 6"	Spacer Block - B End	20	3.33
B-78	*1" x 5" x 9"	Spacer Block - A End	4	1.25
B-79	*1" x 3-5/8" x 9"	Spacer Block - A End	2	.45
B-80	*1" x 3-5/8" x 9"	Spacer Block - A End	2	.45
B-81	*1" x 5" x 5-5/8"	Spacer Block - A End	2	.39
			Total	162.91

NOTE: All 1" thick plywood lining to be A-C ext. Grade. Spacer blocks to be C-C ext. Grade. All "A" Grade surfaces are to be sanded. All Plywood to conform with U.P. Spec. CS-107. Size of insulation spacer blocks may be reduced by amount required for saw cuts in order to cut blocks from standard 48" x 96" panels without waste.

For details of fabrication see P.F.E. Drwgs. Nos. 2R-4427 and 2R-4548.
All spacer blocks over 1" thick may be made by combining 2 separate blocks.
* All items marked * are to be cut to size and/or machined by PFE Co.
All other items are to be furnished as shown on drawing.
All 5/16" plywood to be BC Grade.

San Francisco, California
March 27, 1958

PLYWOOD
SCHEDULE No. PW-1-W

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CARS CLASS R-40-30

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